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4. Moving Base Code Structure

(01) Nov

12

FA

7B

For limits

6A

2

3

2.

8.

1

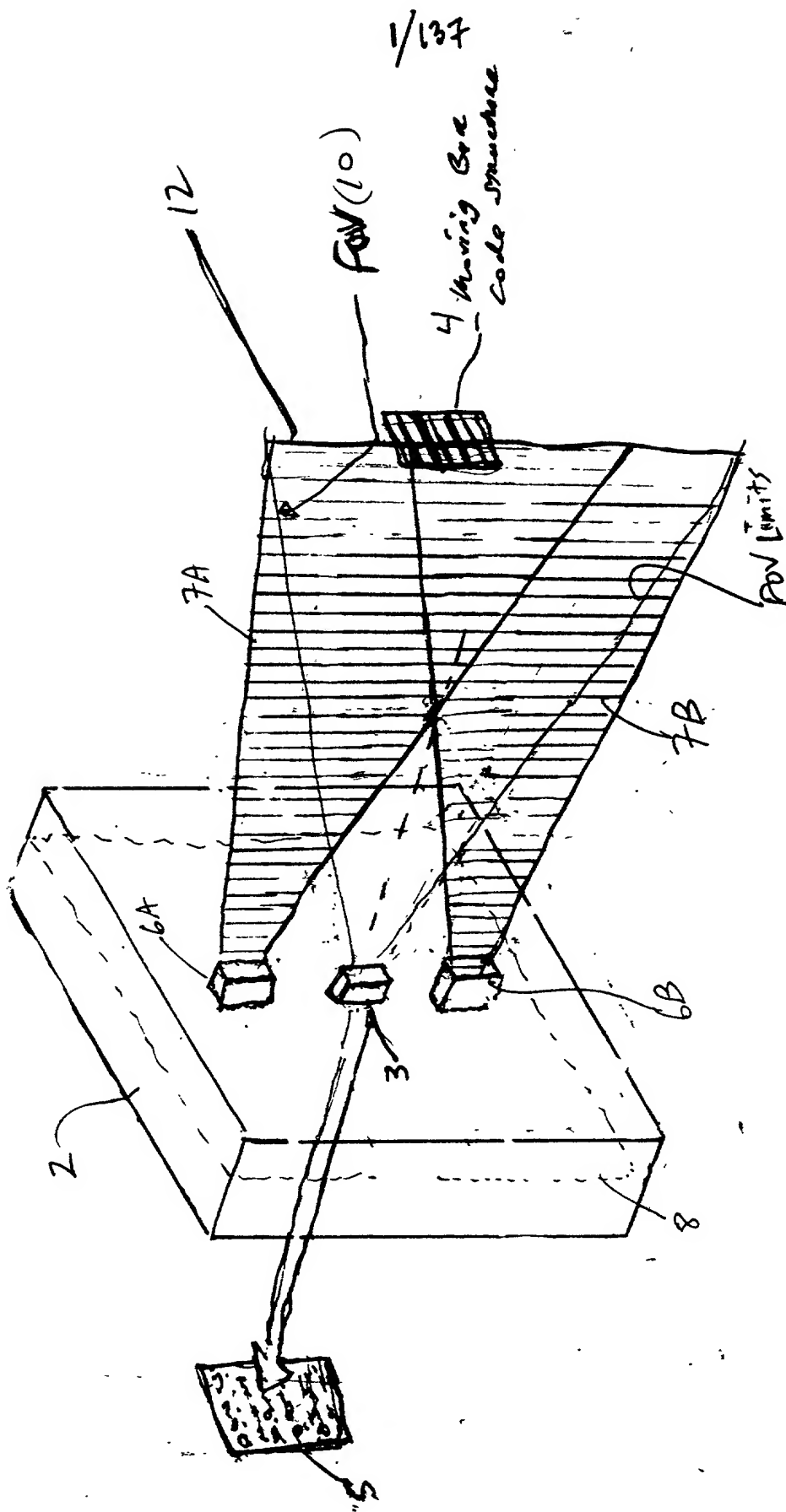


FIG 1A

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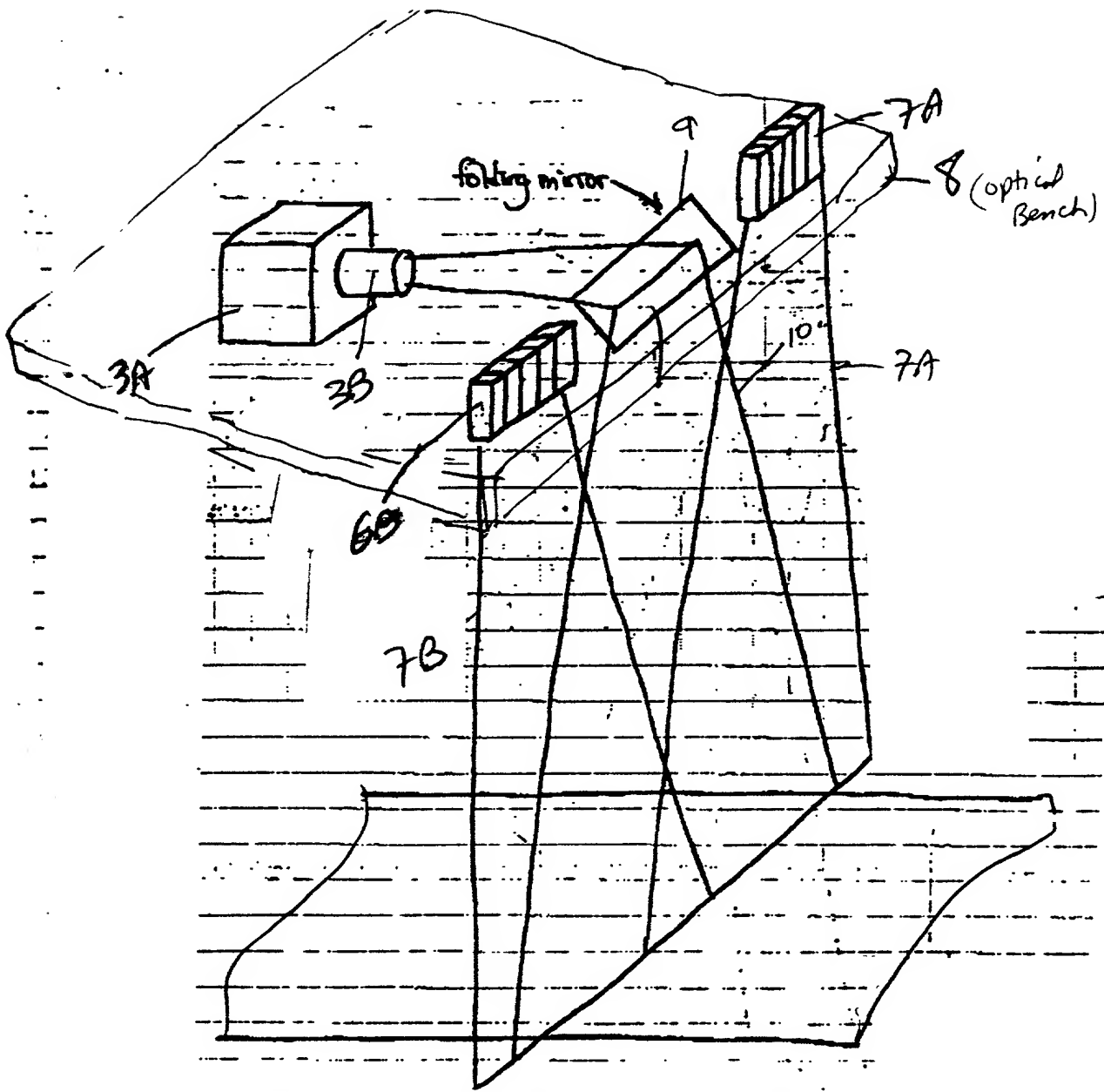


FIG. 1B1

1A

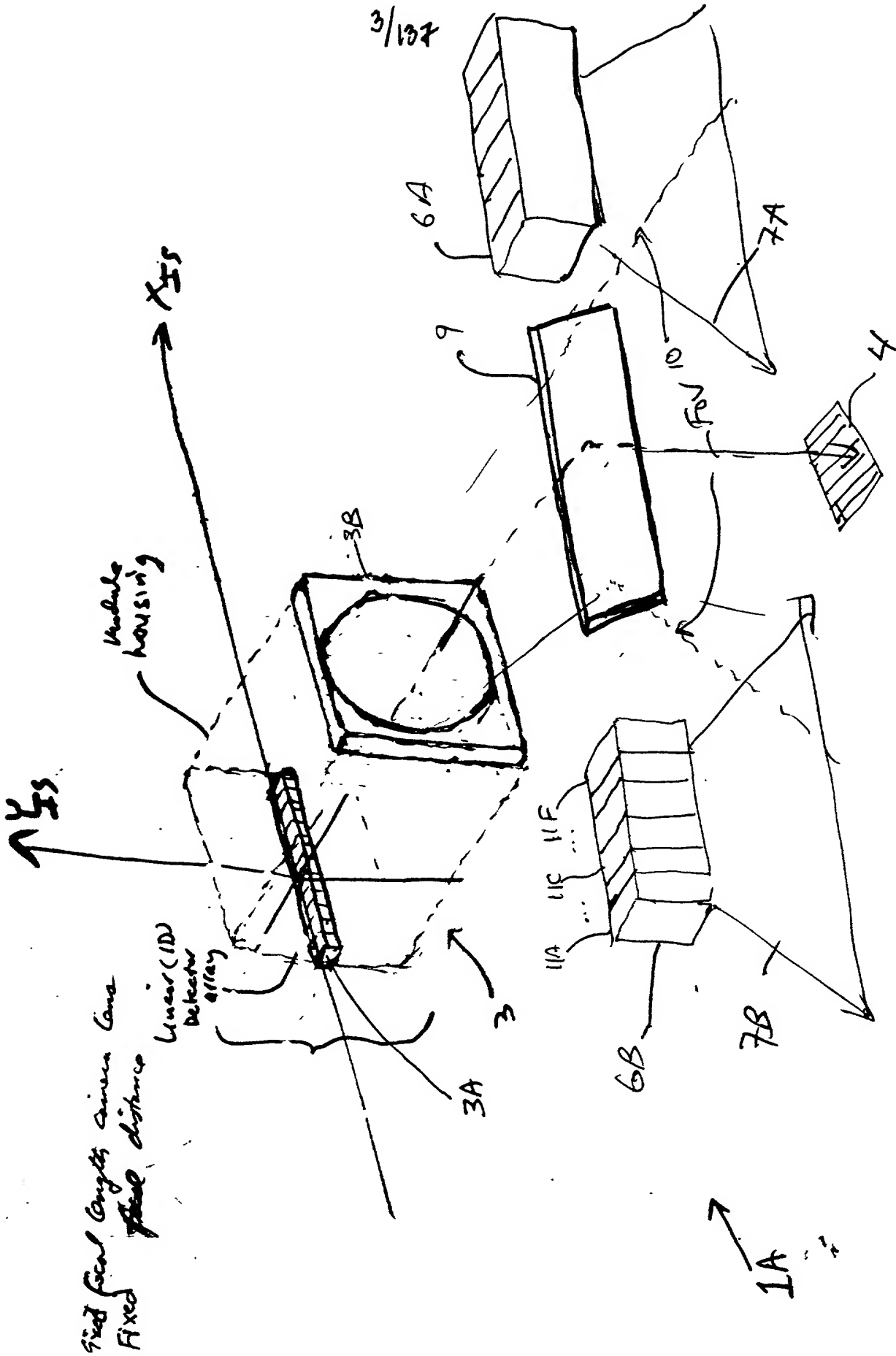


FIG. 1B2

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Fixed focal length sensor lens
Fixed pixel distance

Linear (ID)
Detector
array

Module
housing

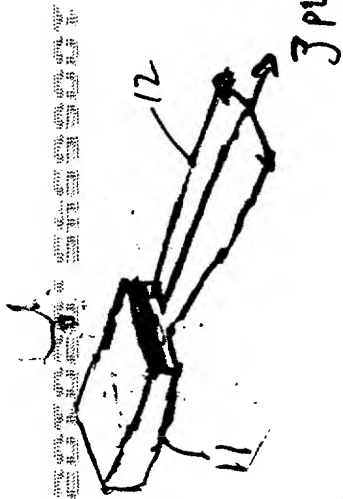


FIG. 1C

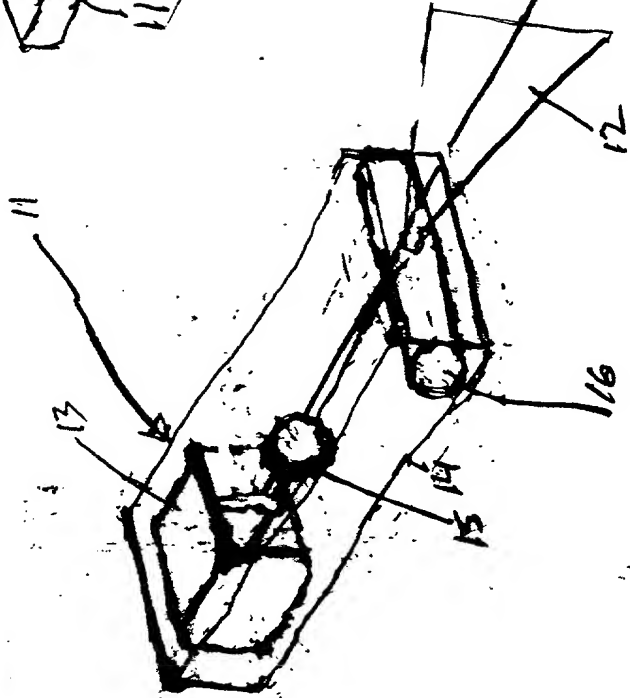


FIG. 1D

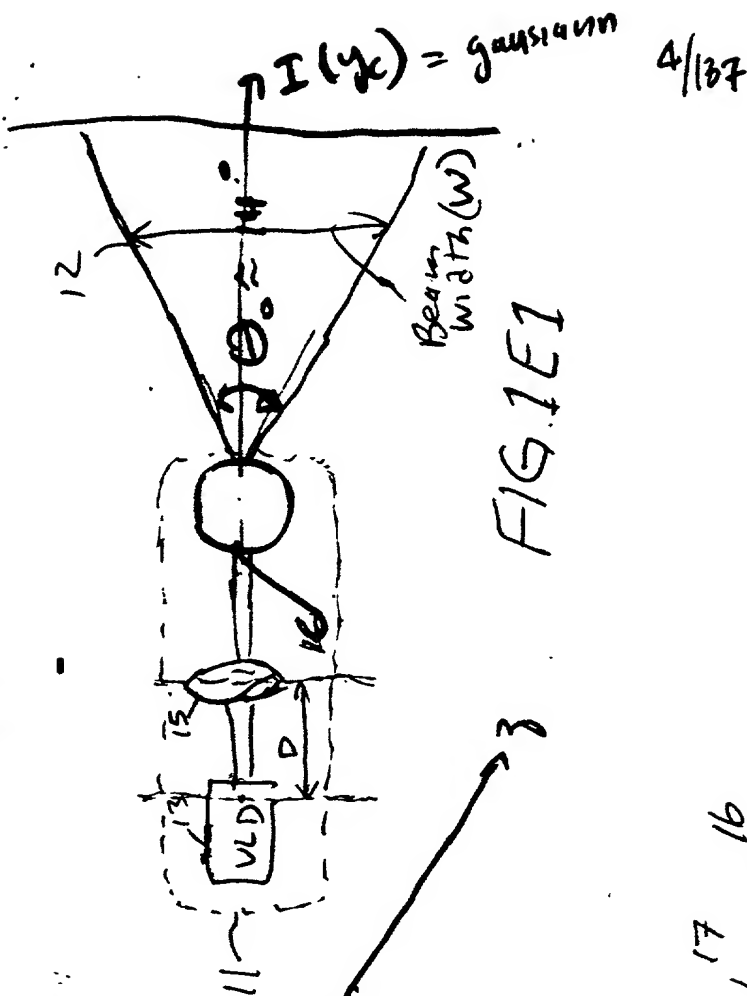


FIG. 1E

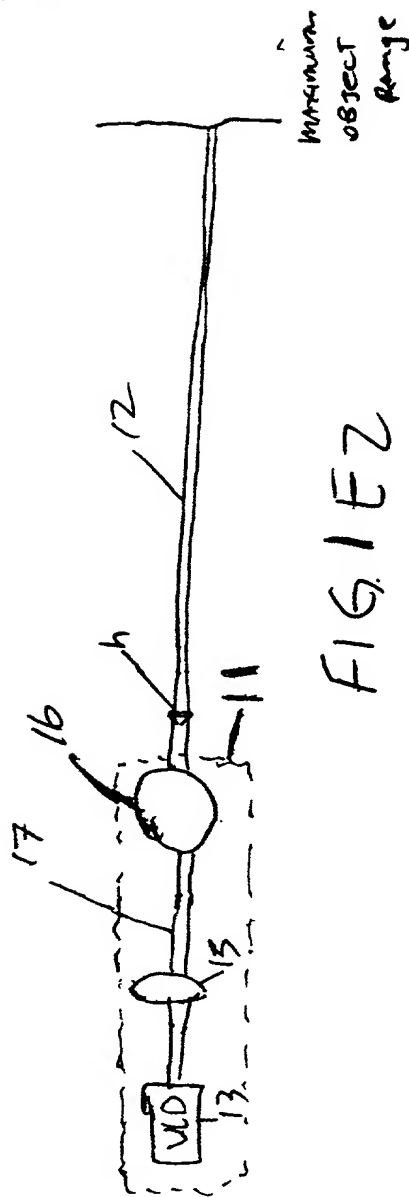


FIG. 1F

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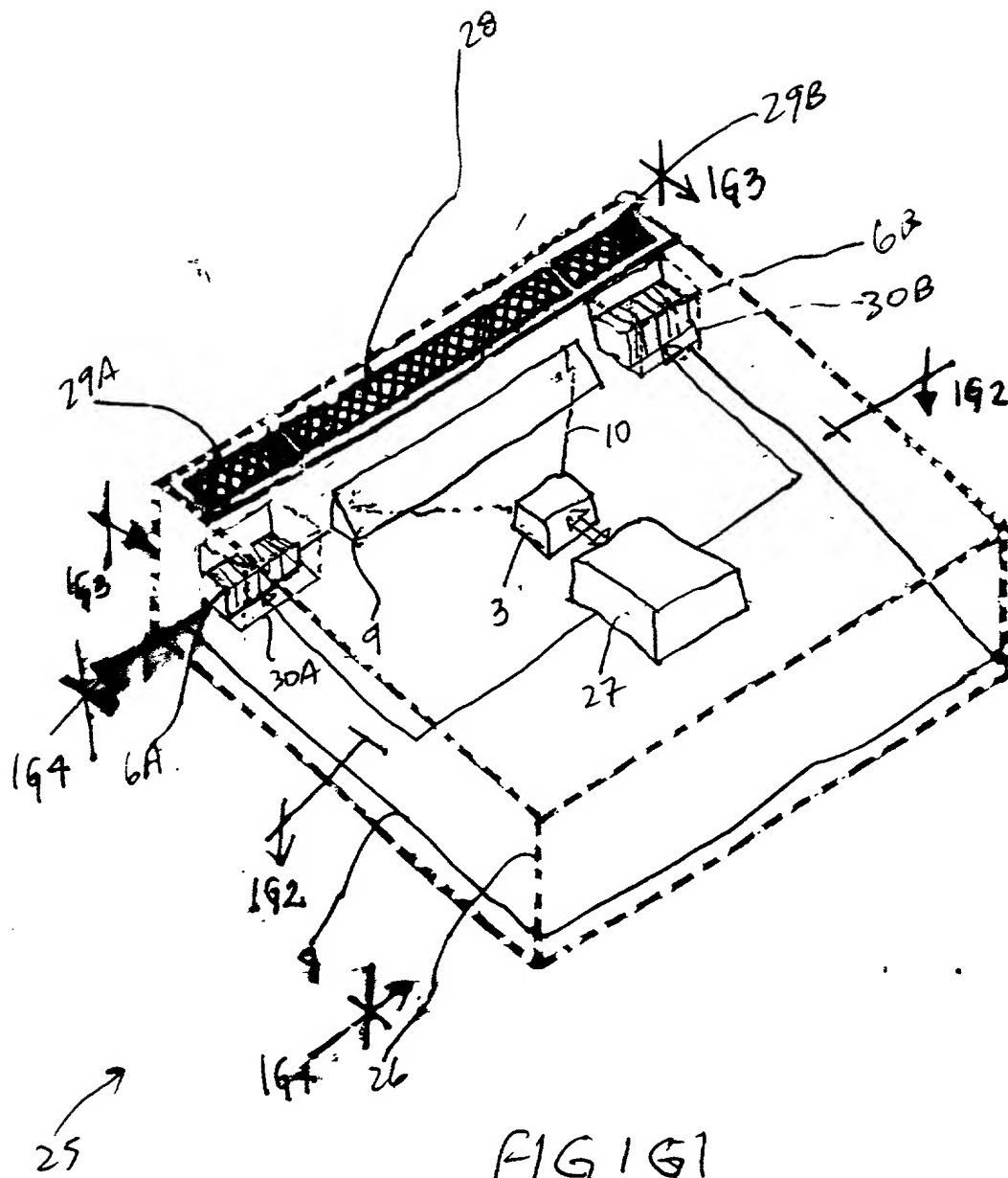


FIG 151

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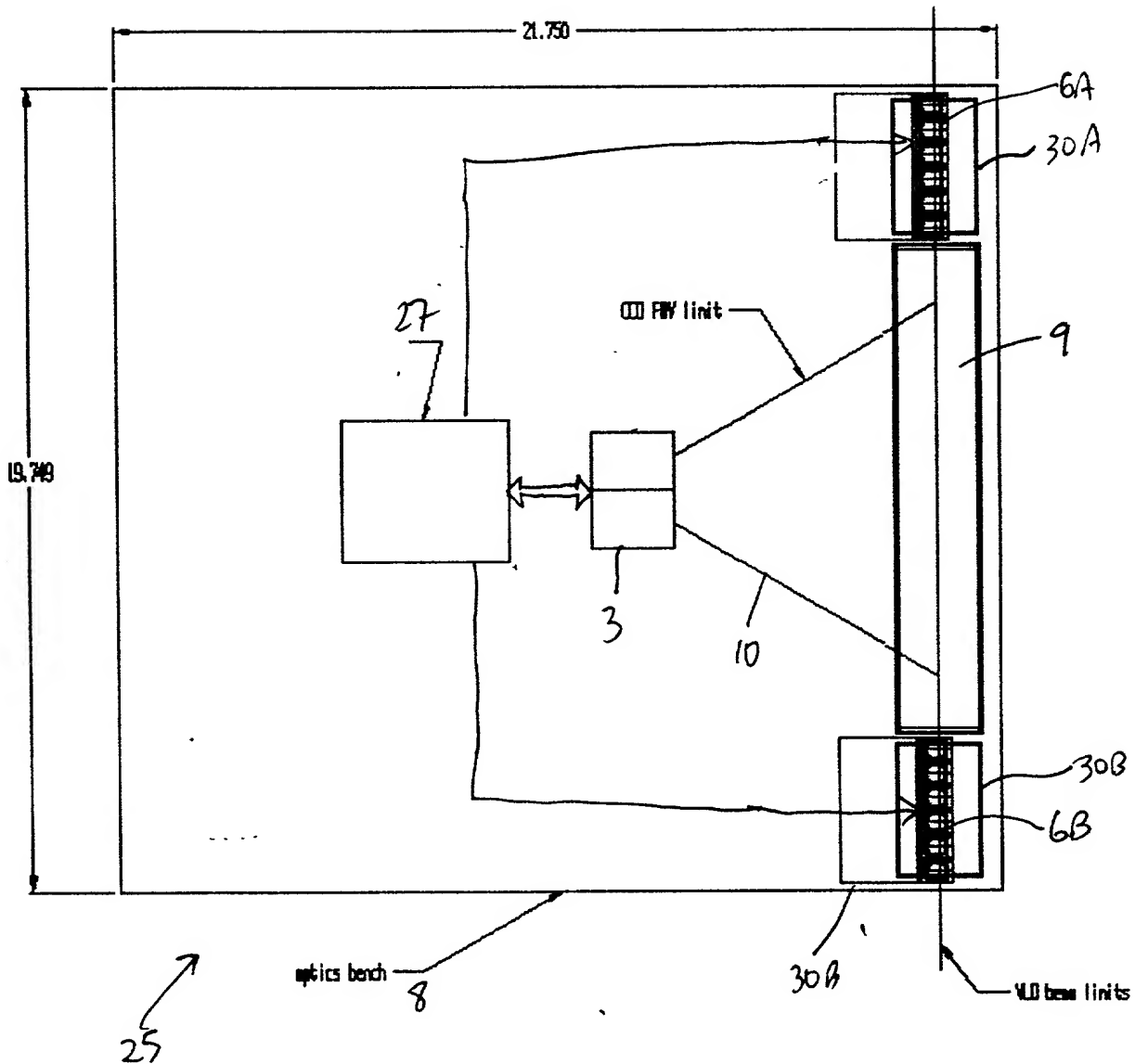


FIG. 162

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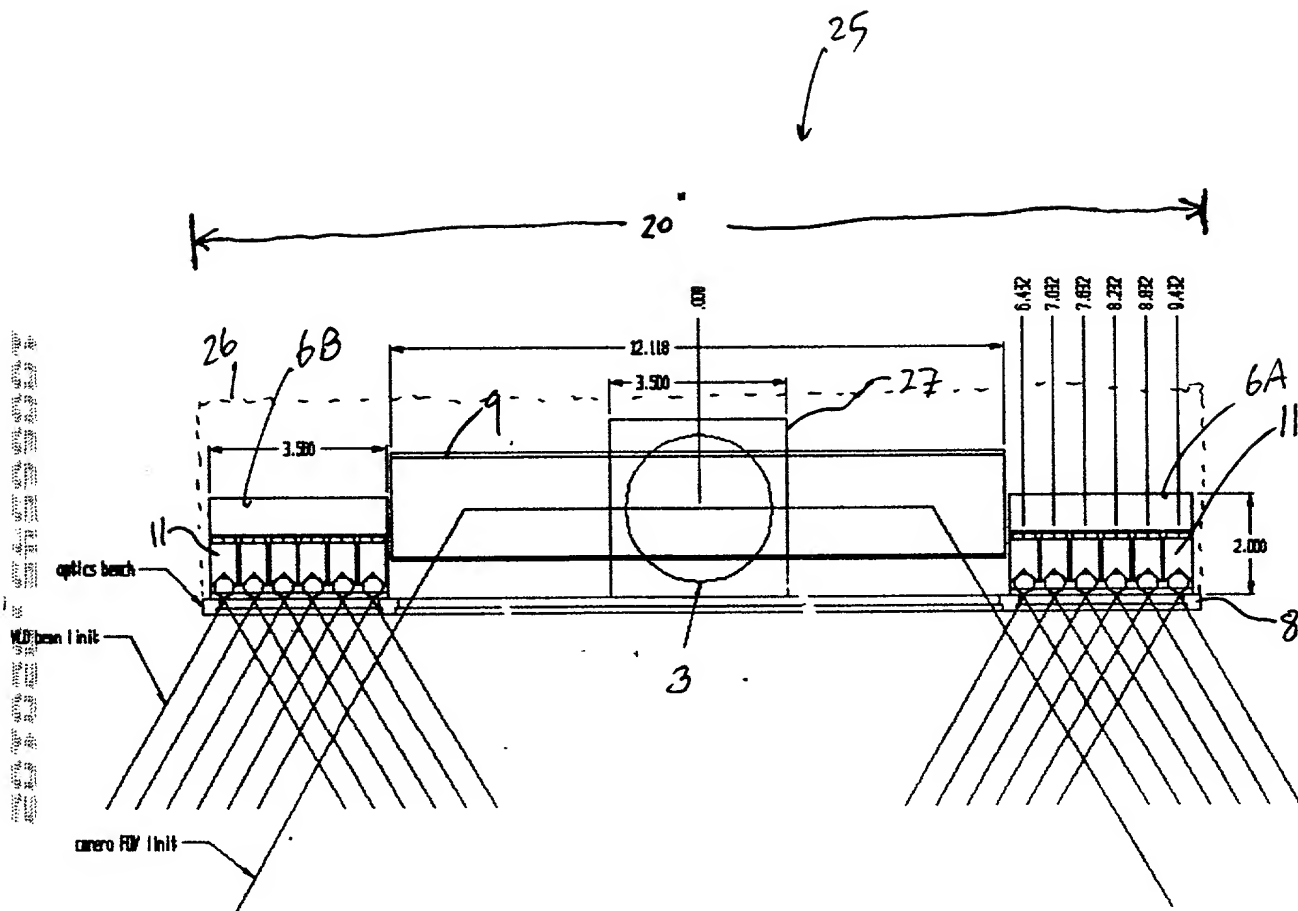


FIG. 1G.3.

a/137

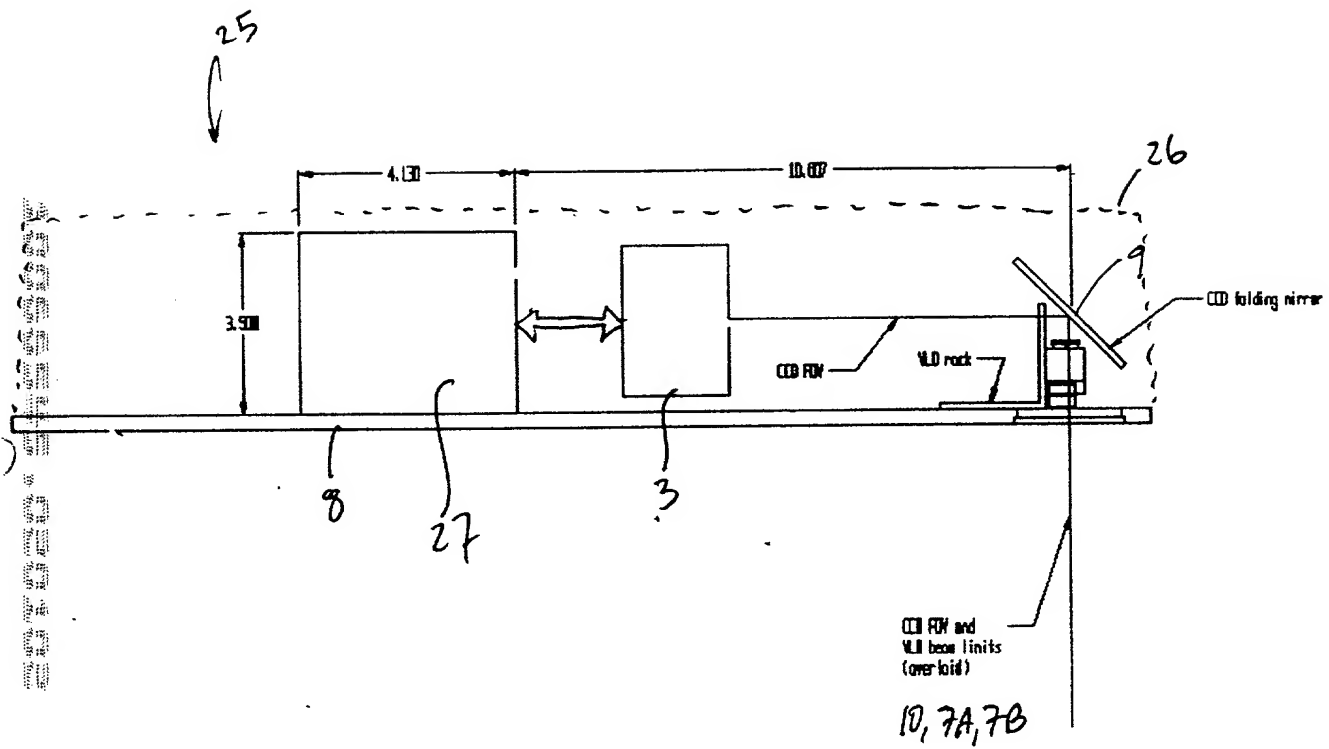
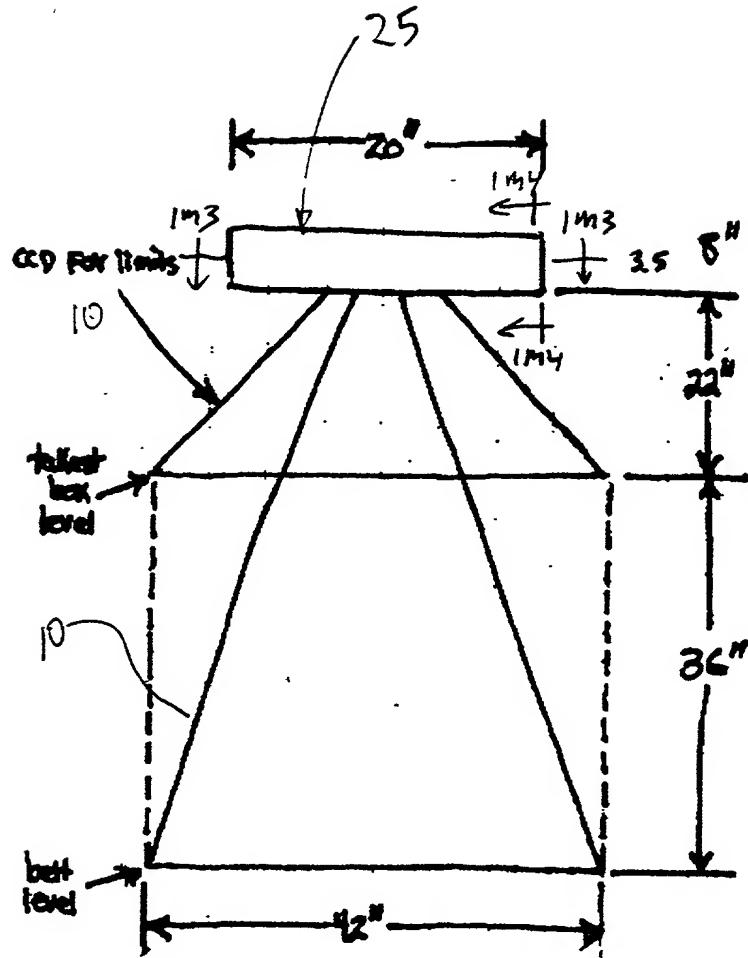


FIG. 1G4

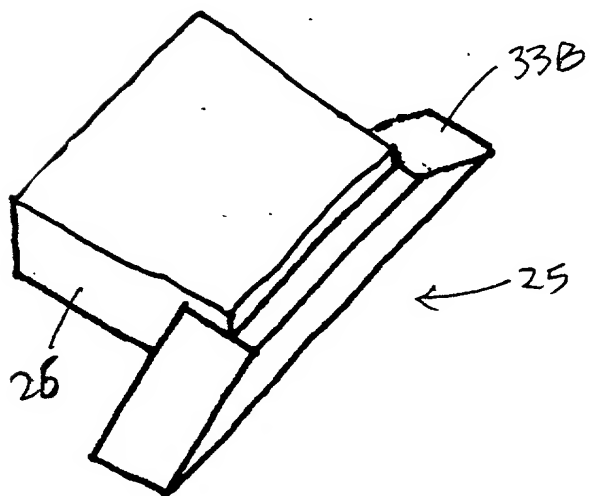
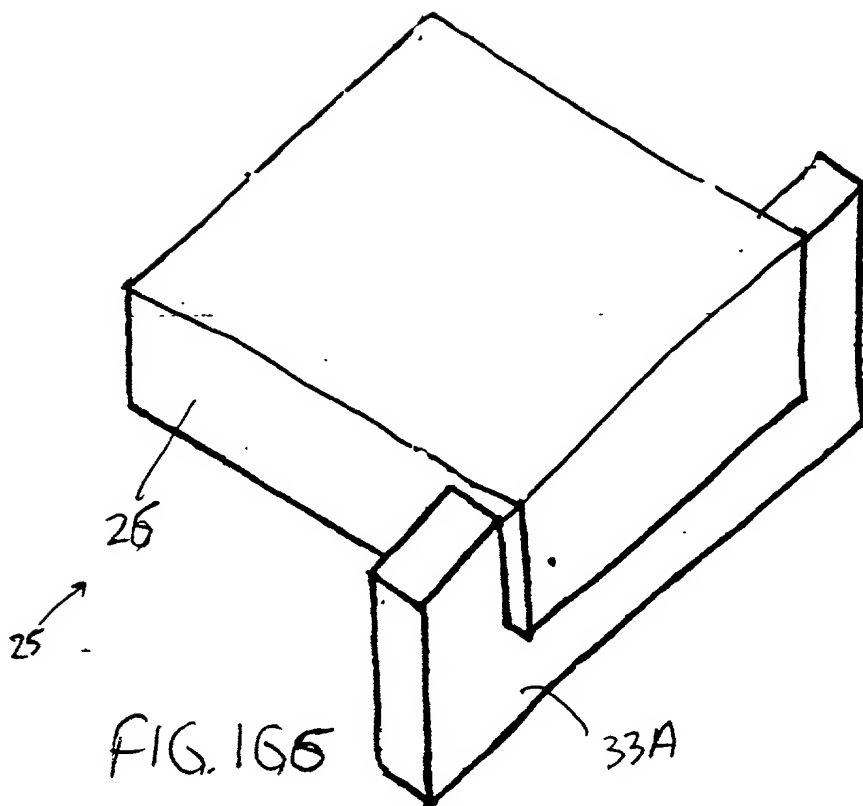
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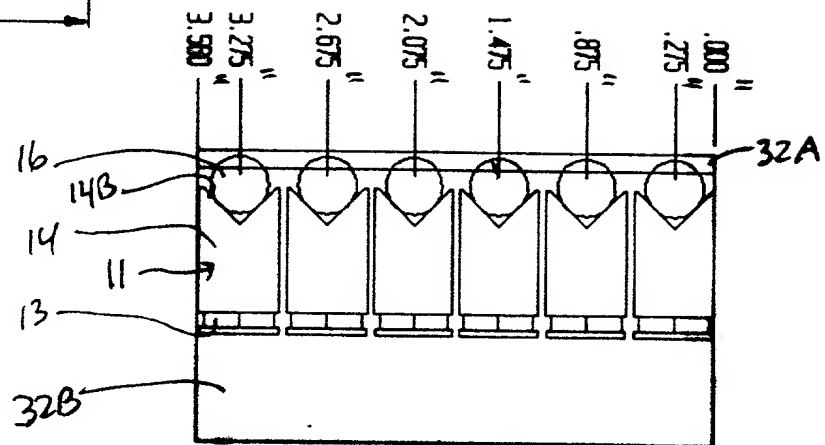
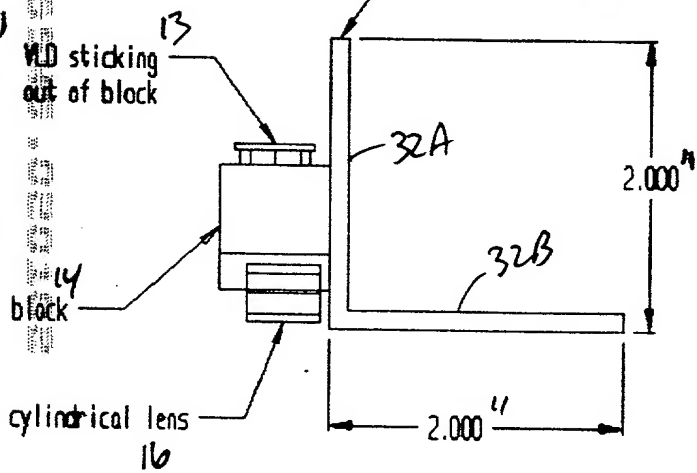
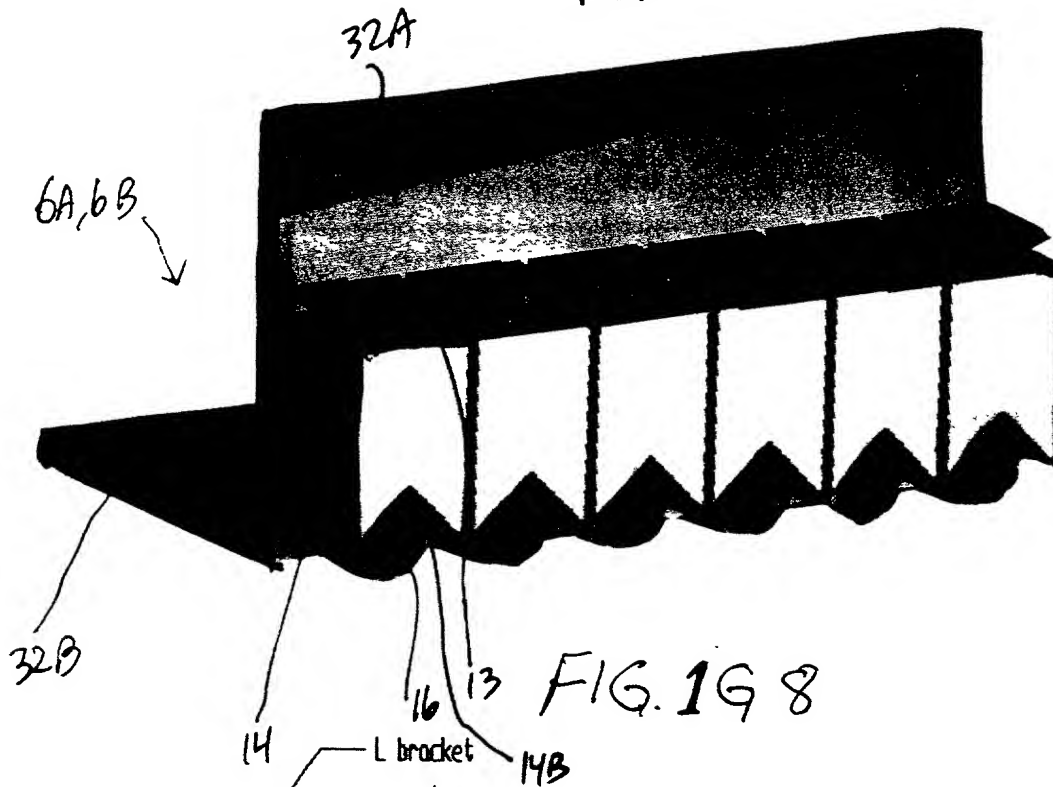
* Fixed Field of Field

FIG. 195

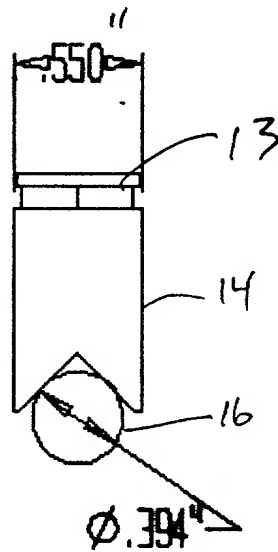
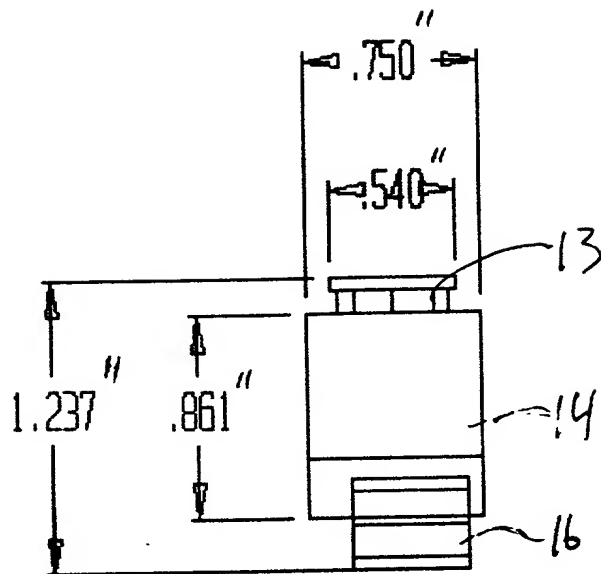
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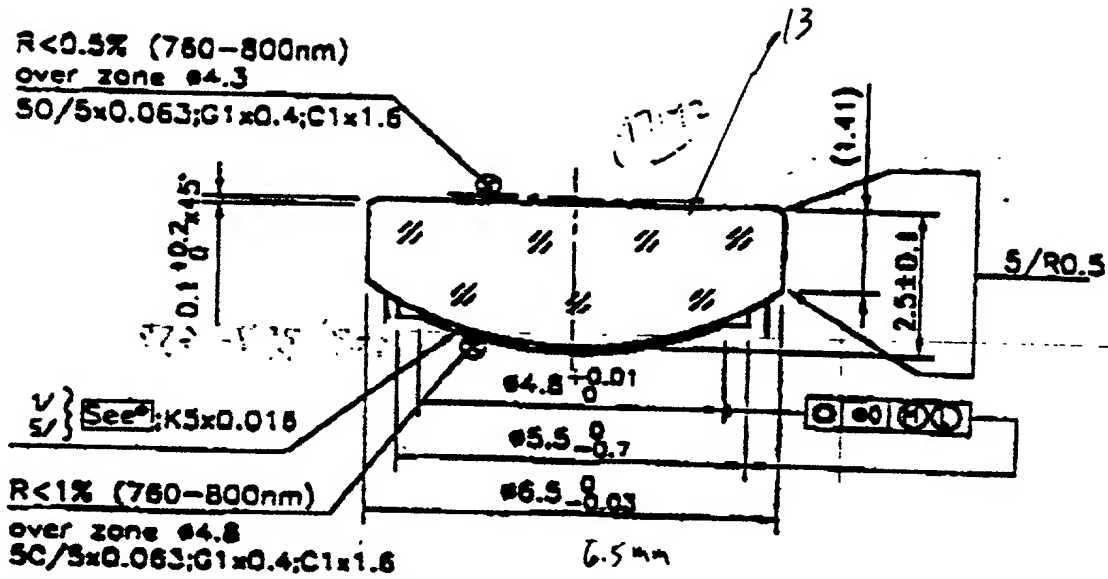


FIG. 1H1

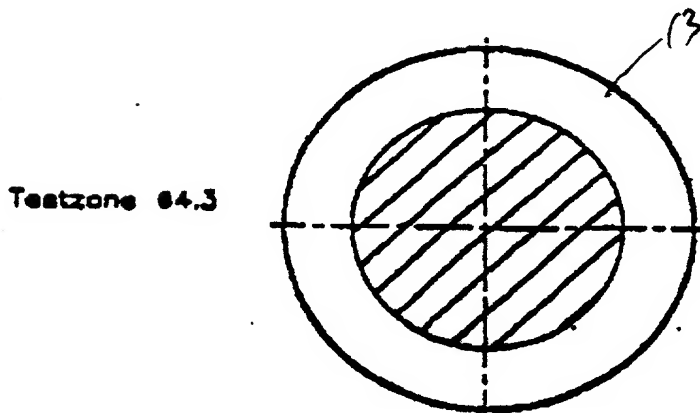


FIG. 1H2

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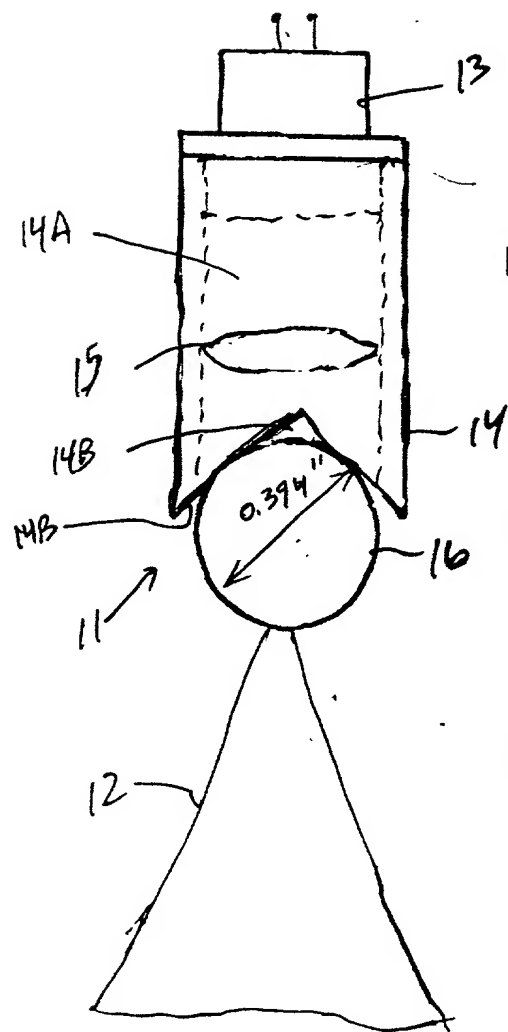


FIG. 1I1

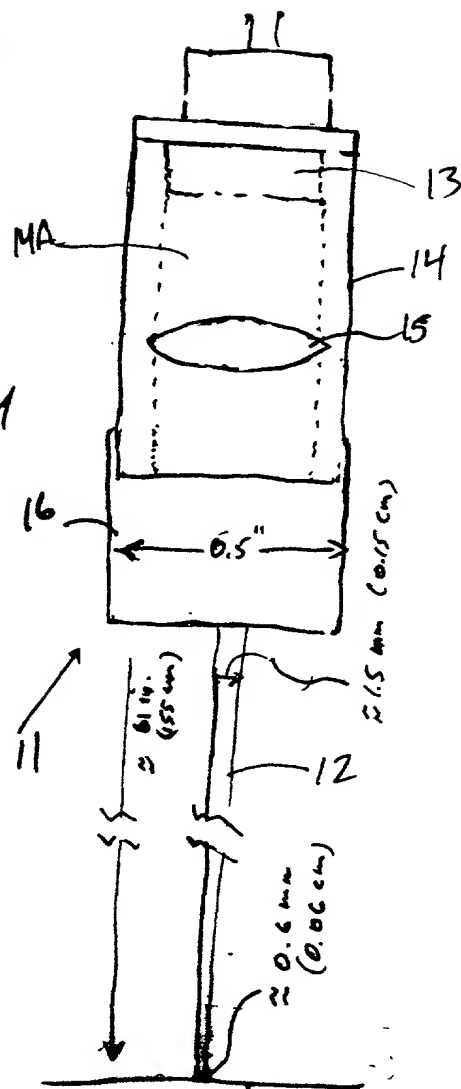


FIG. 112

furthest
object / working
distance

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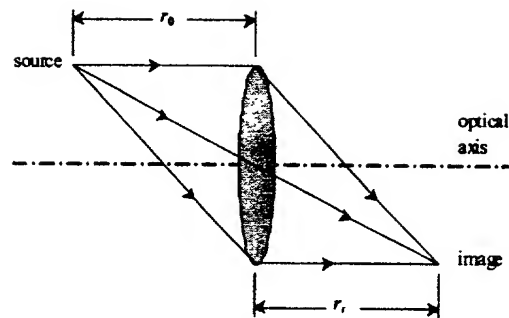


FIG. 1J1

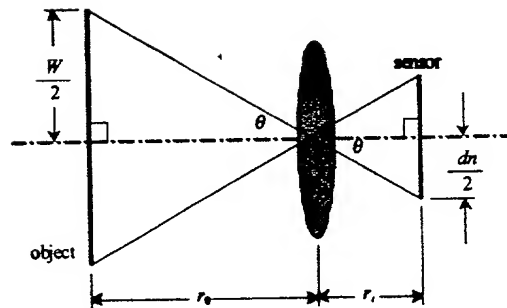


FIG. 1J2

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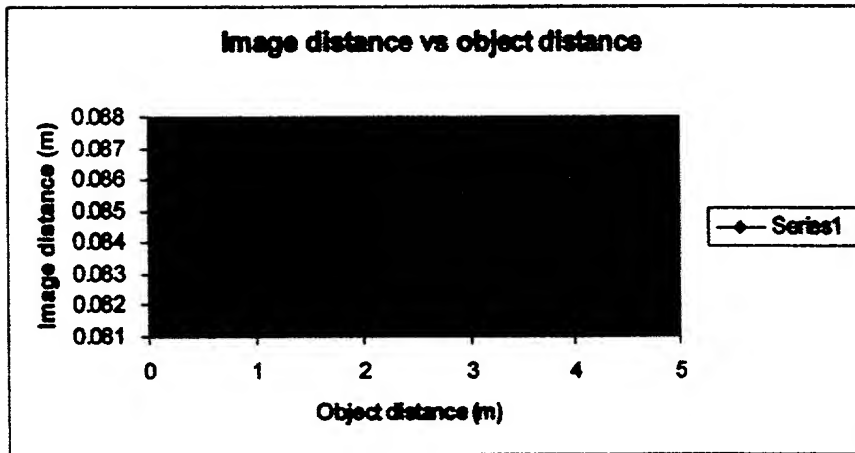


FIG. 1J3

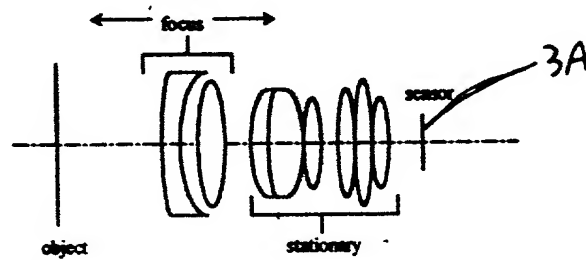


FIG. 1J4

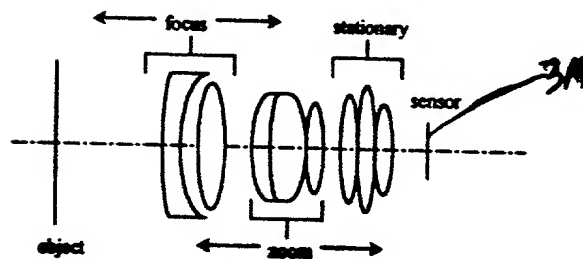
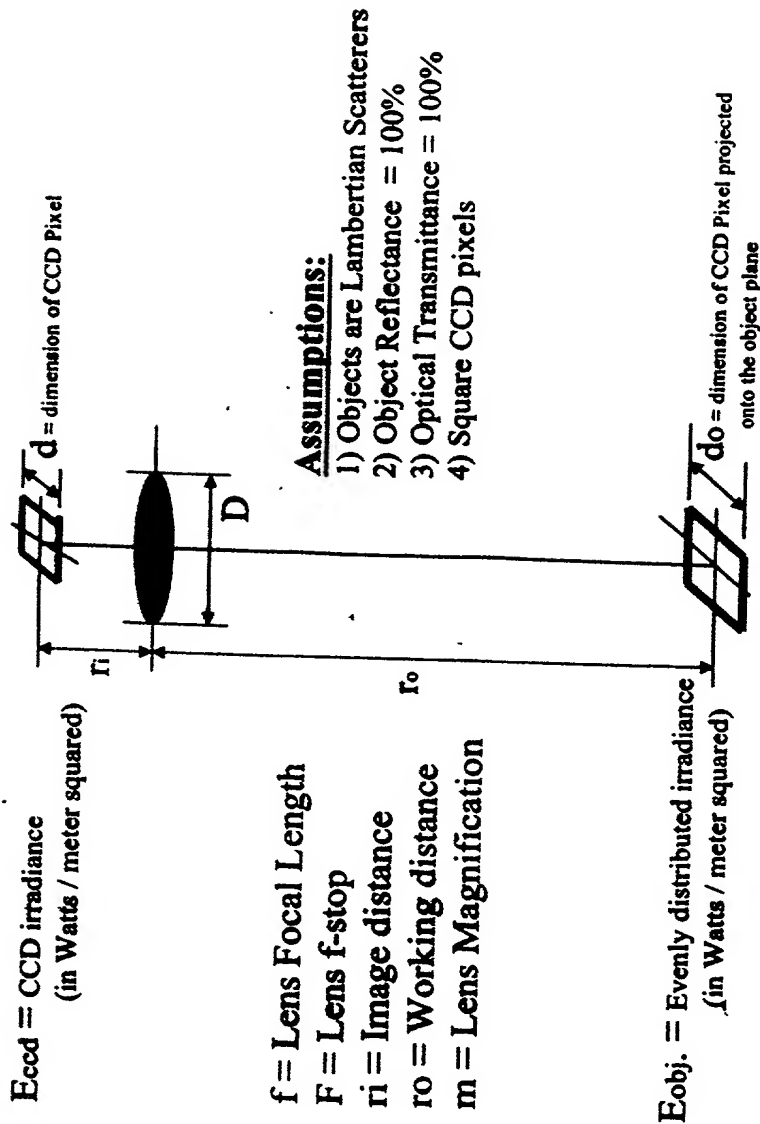


FIG. 1J5

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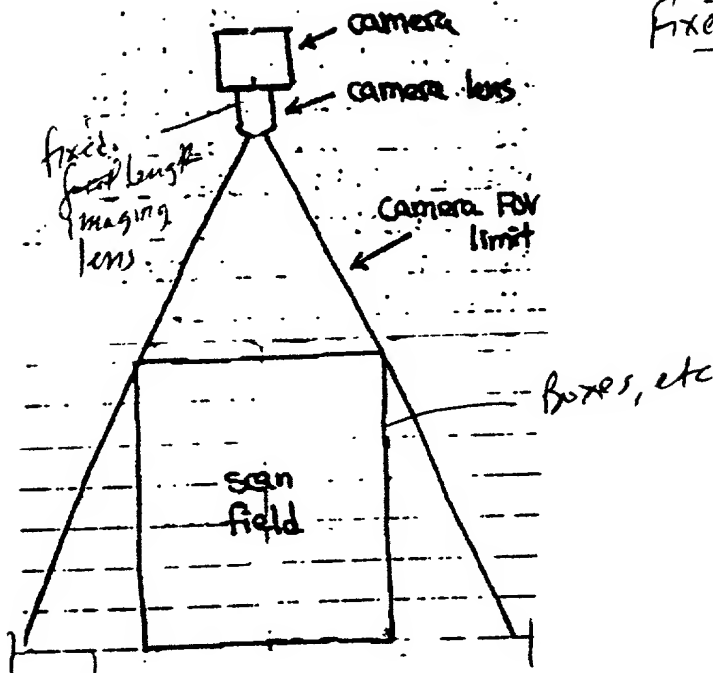


CCD-Based Scanner

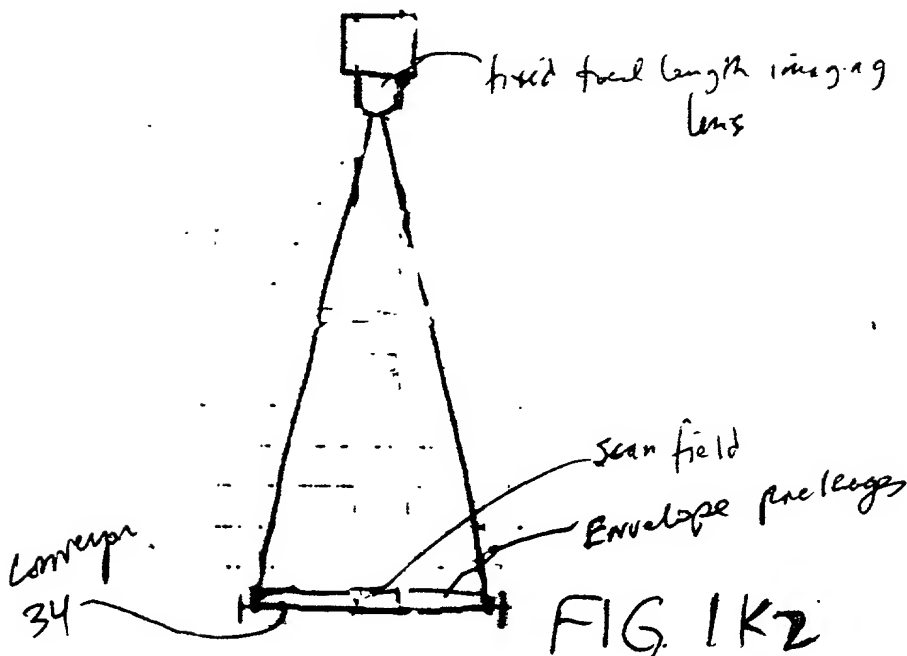
FIG. 1J6

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Fixed focal length lens
cases



conveyer 34 FIG 1K1



conveyer 34

FIG 1K2

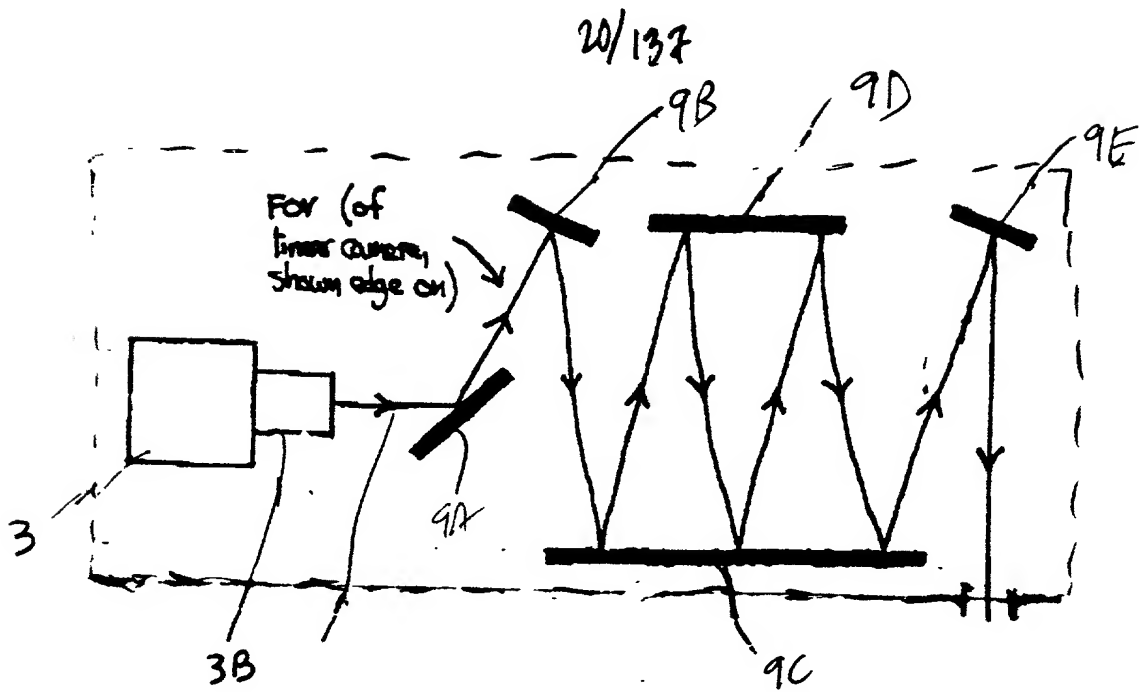


FIG. 1L1

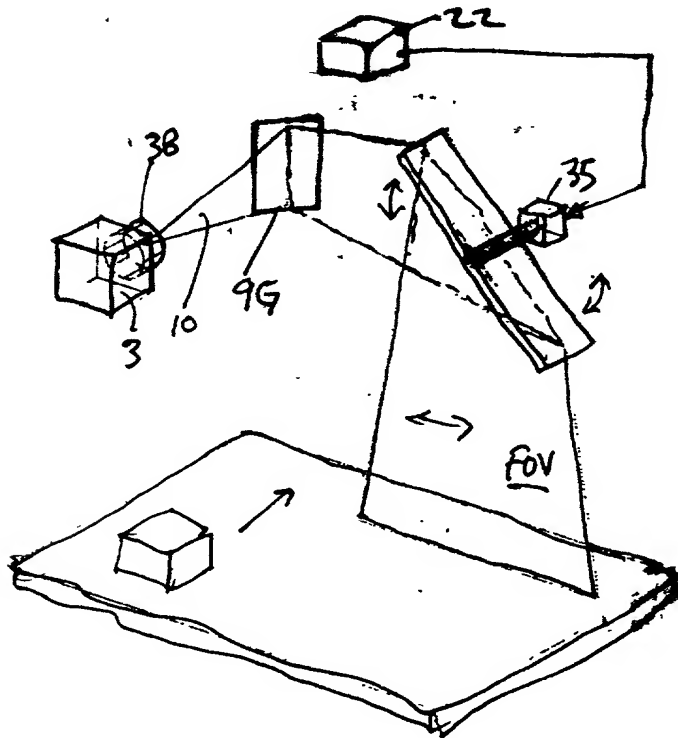


FIG 1L2

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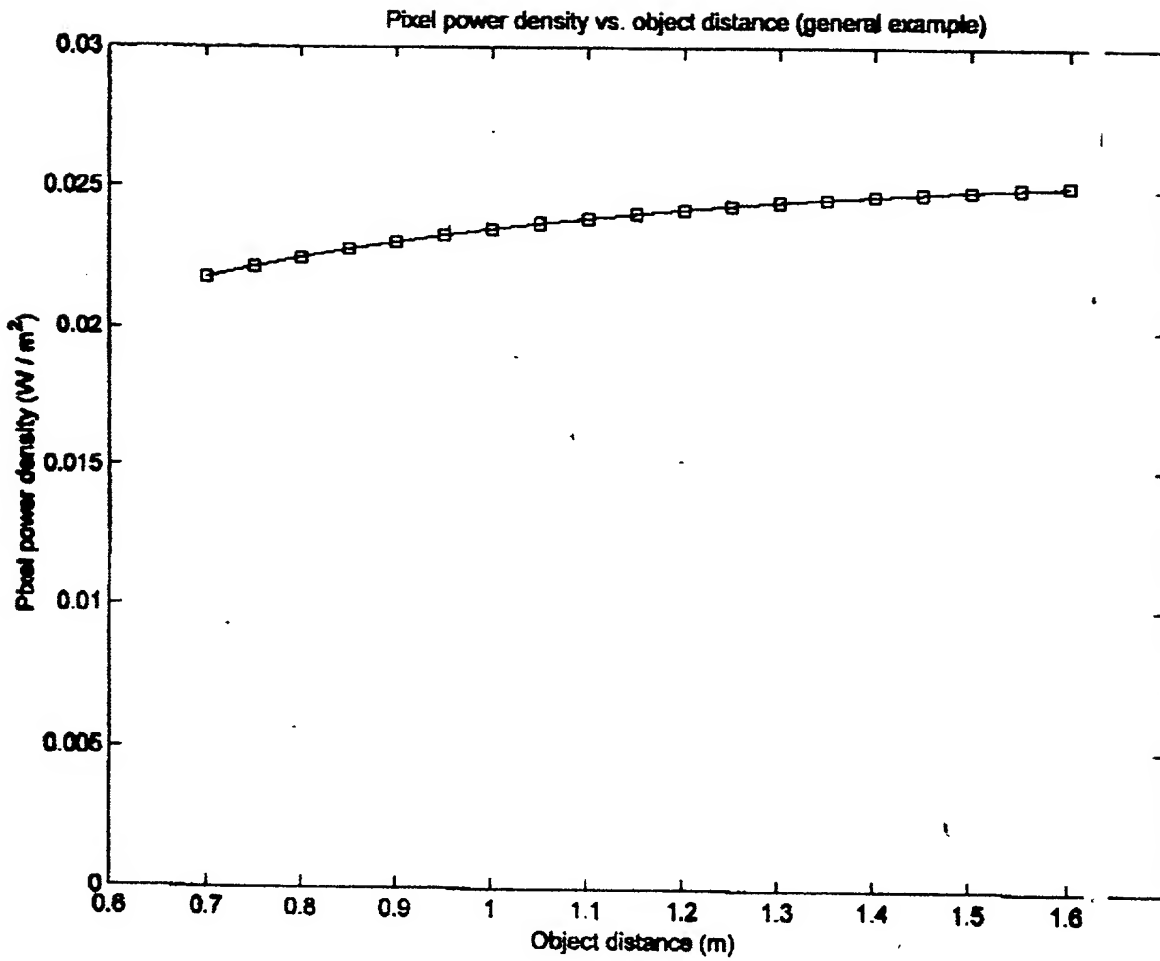


FIG. 1M1

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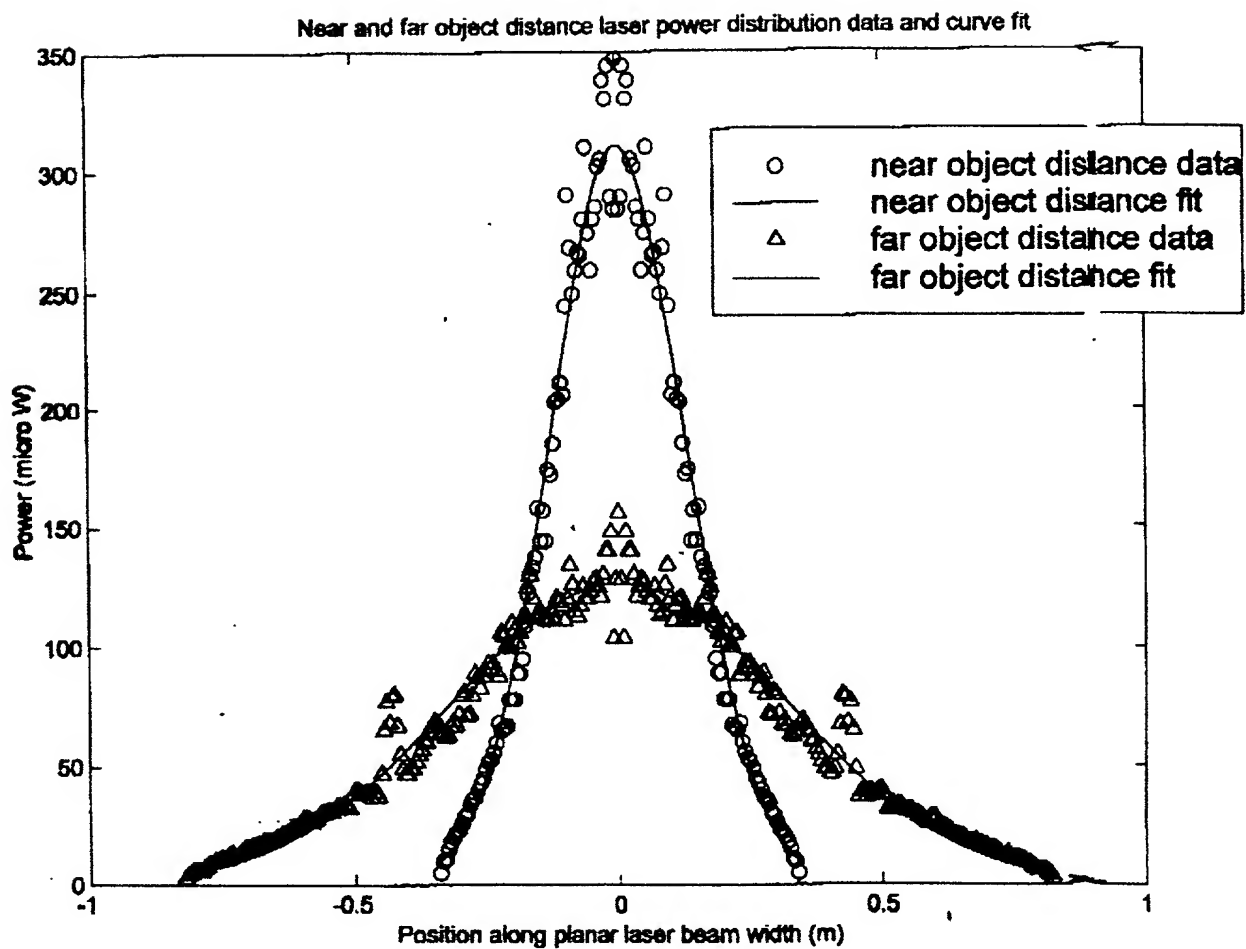


FIG. 1M2

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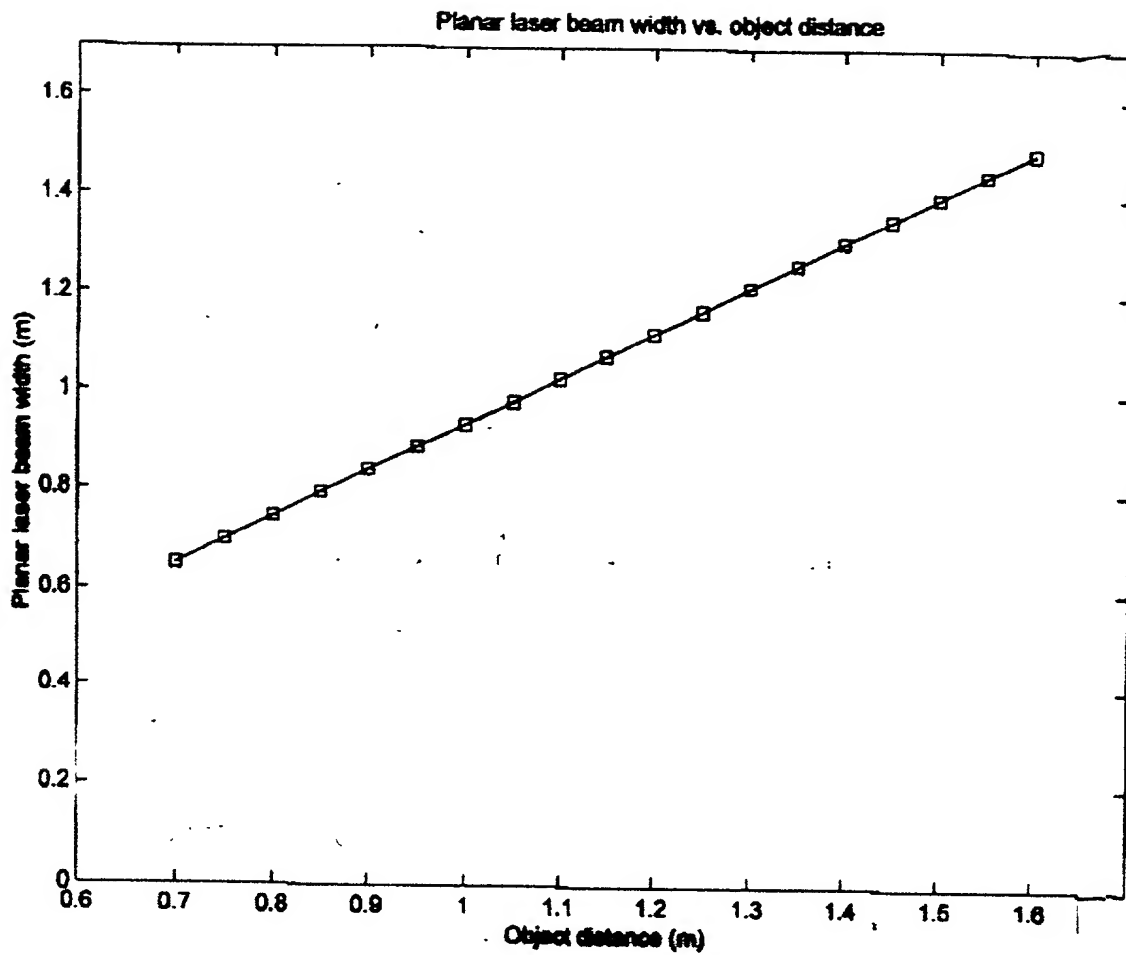
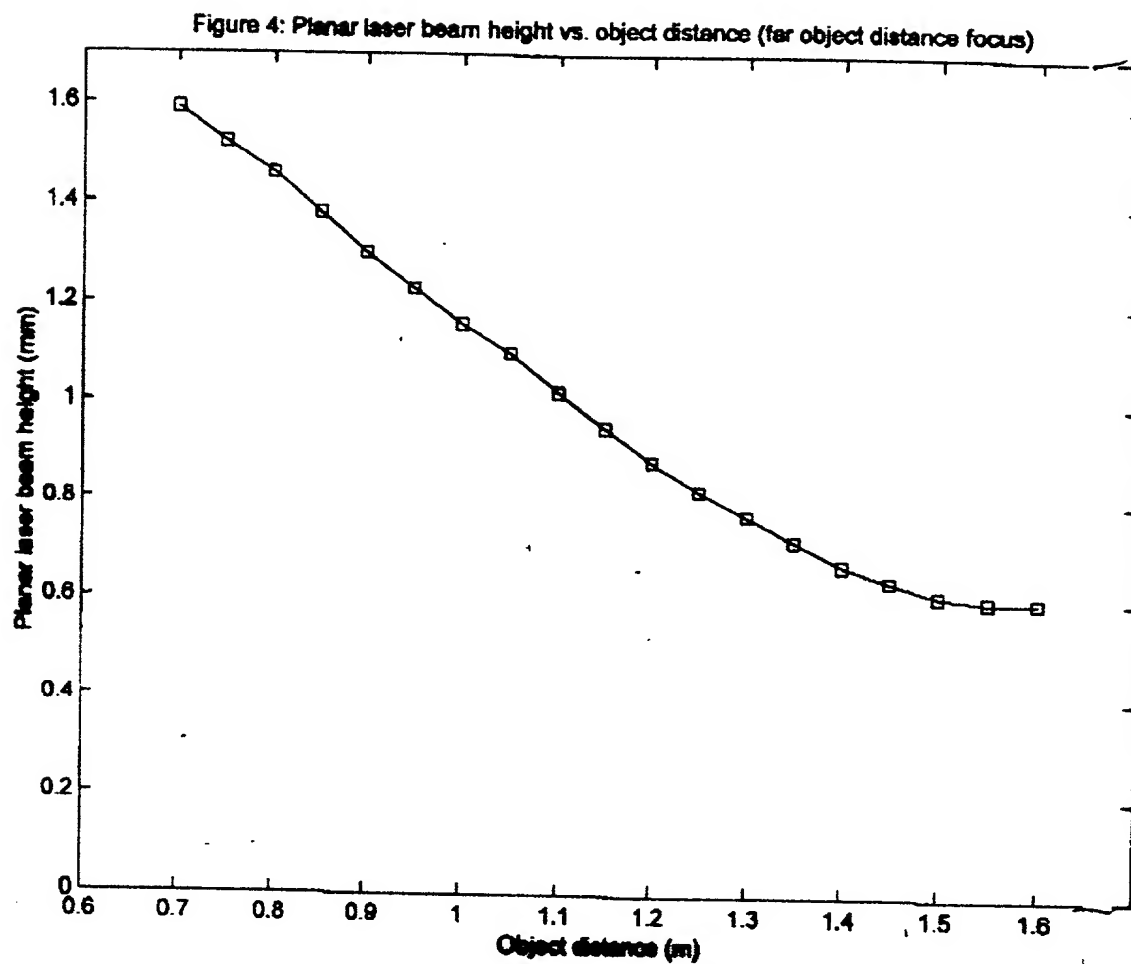


FIG. 1M3

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FIG/M4

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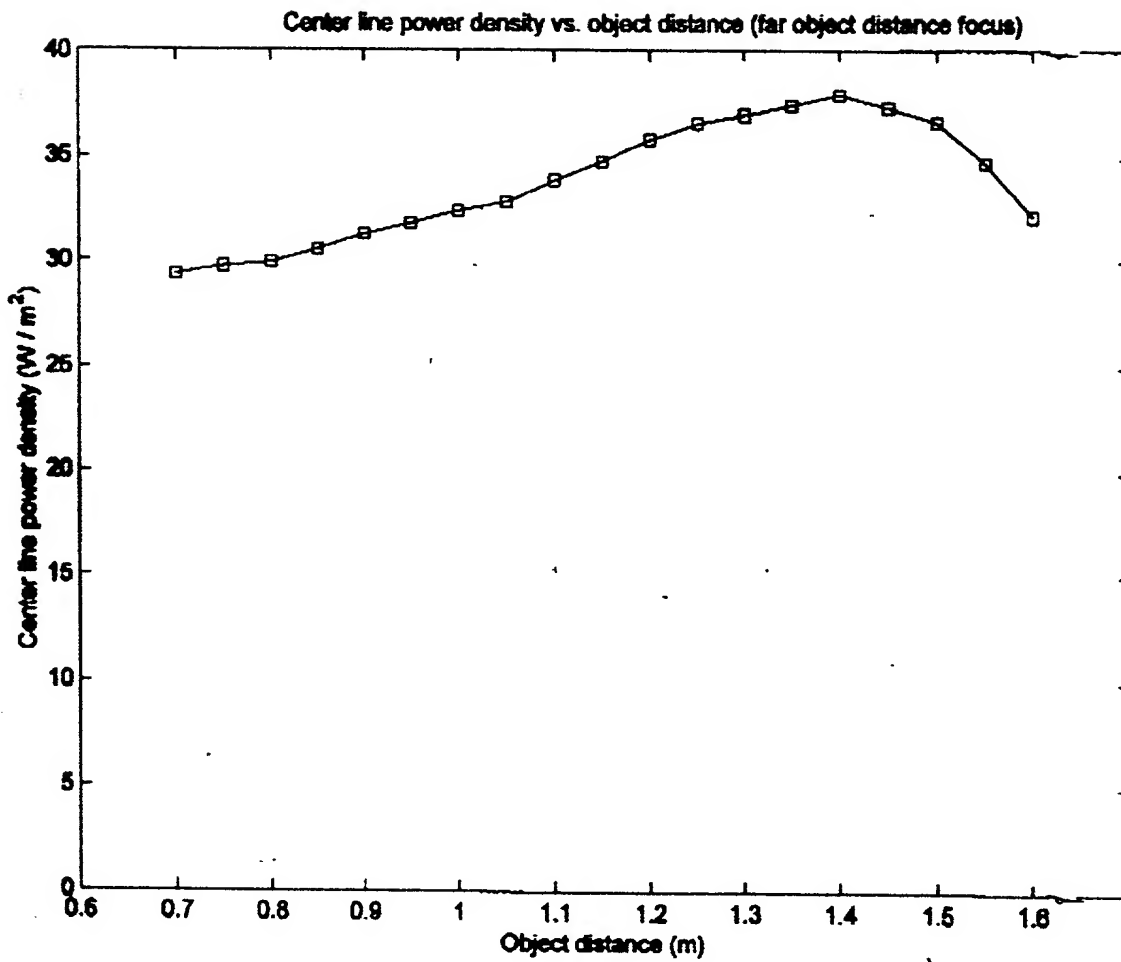


FIG. 1N

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Figure 6: Pixel power densities vs. object distance

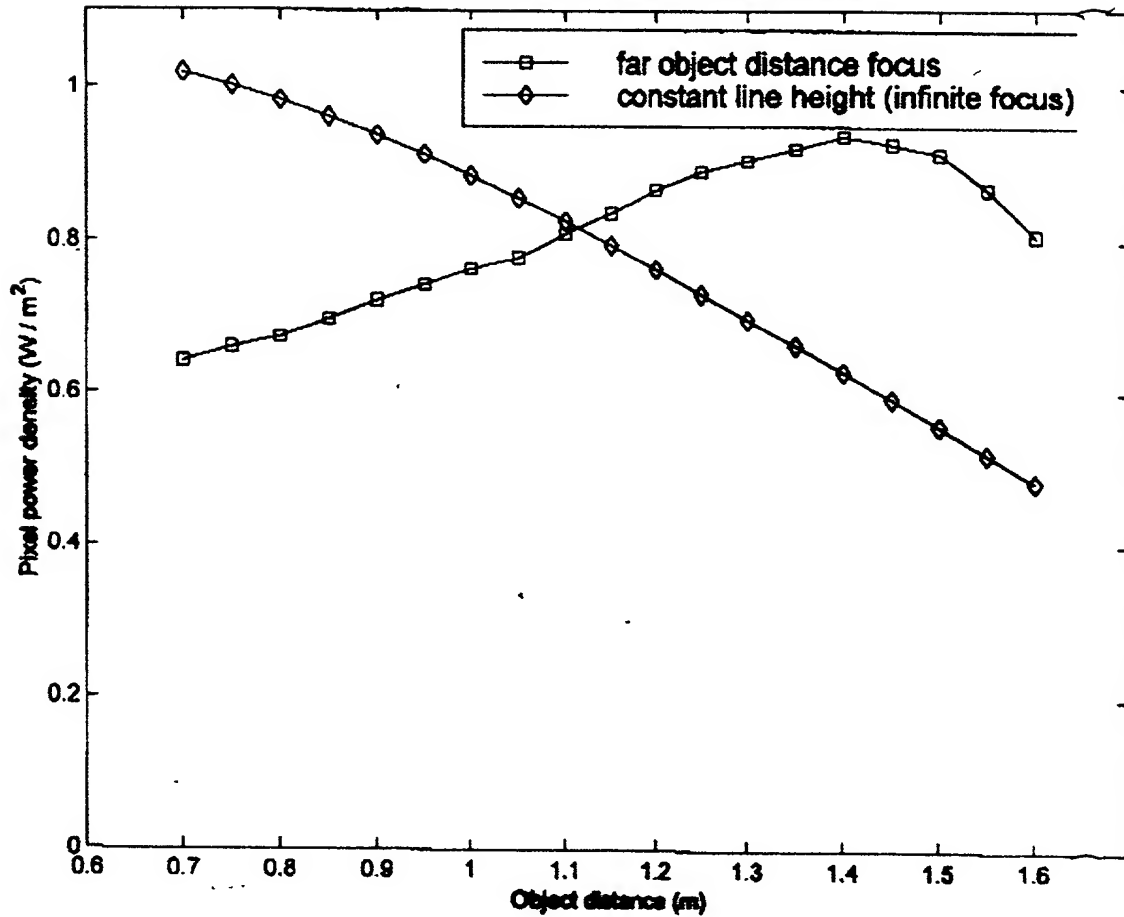
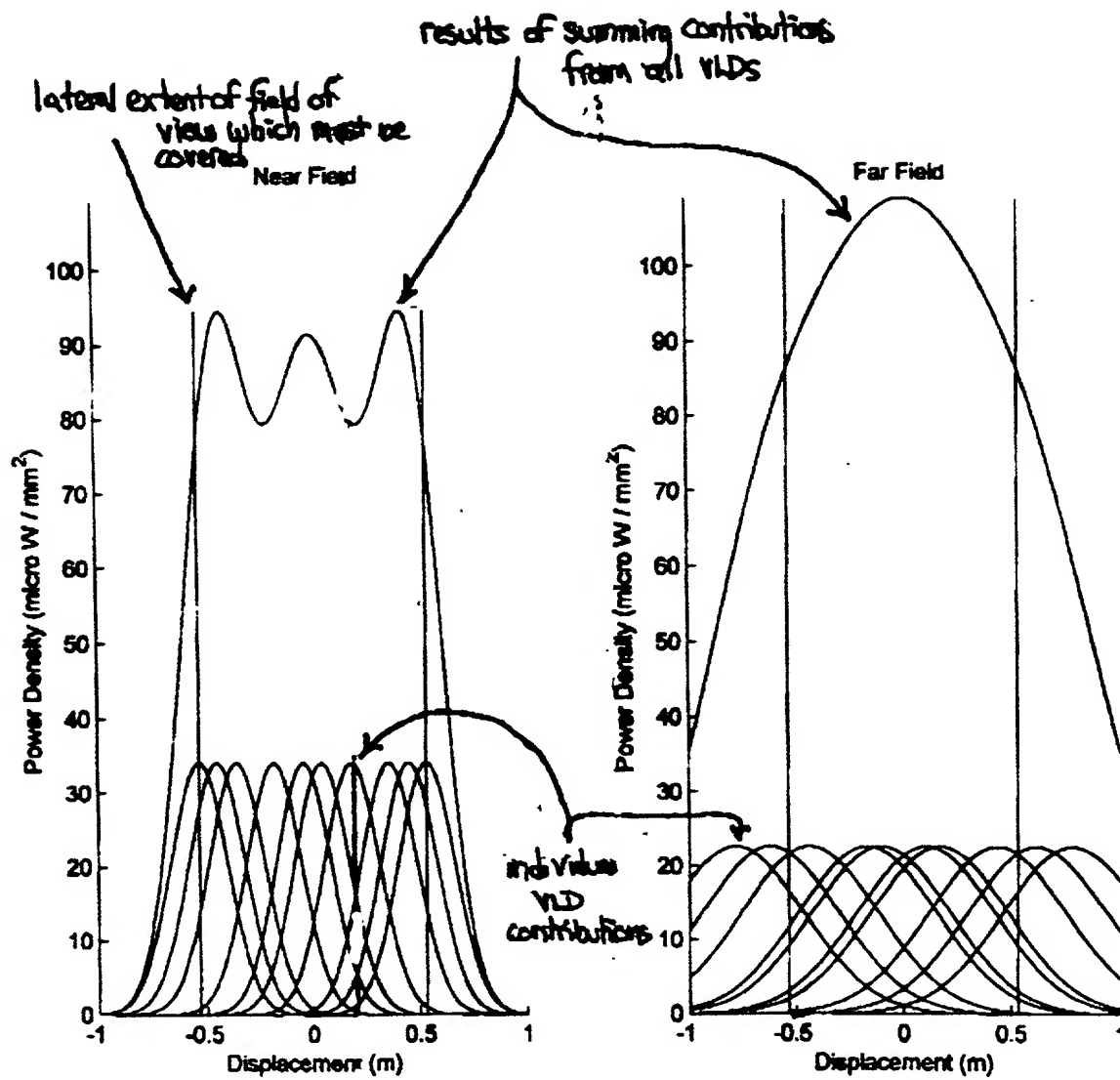


FIG. 10

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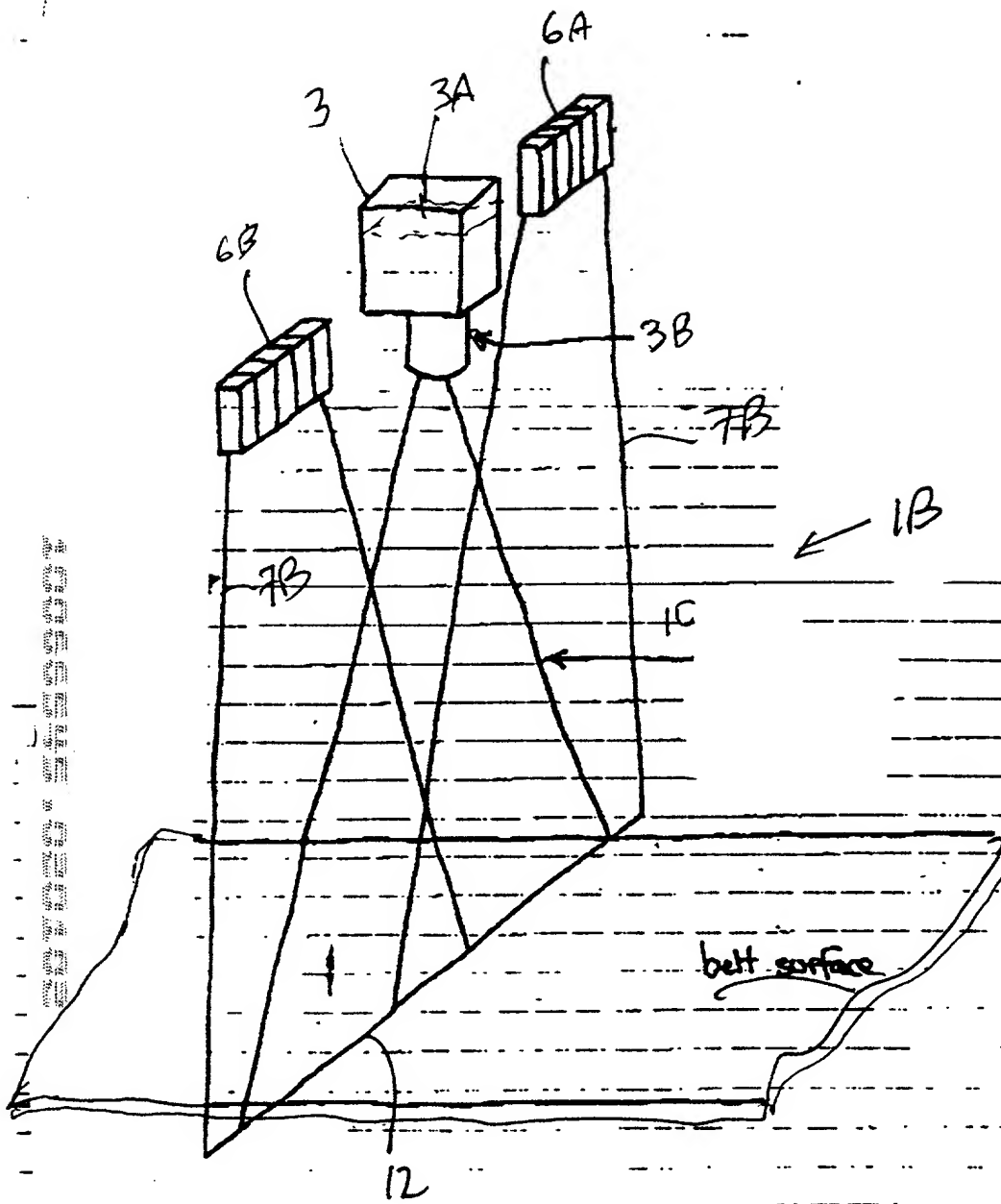


FIG. 1Q1

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Fixed focal length / fixed distance

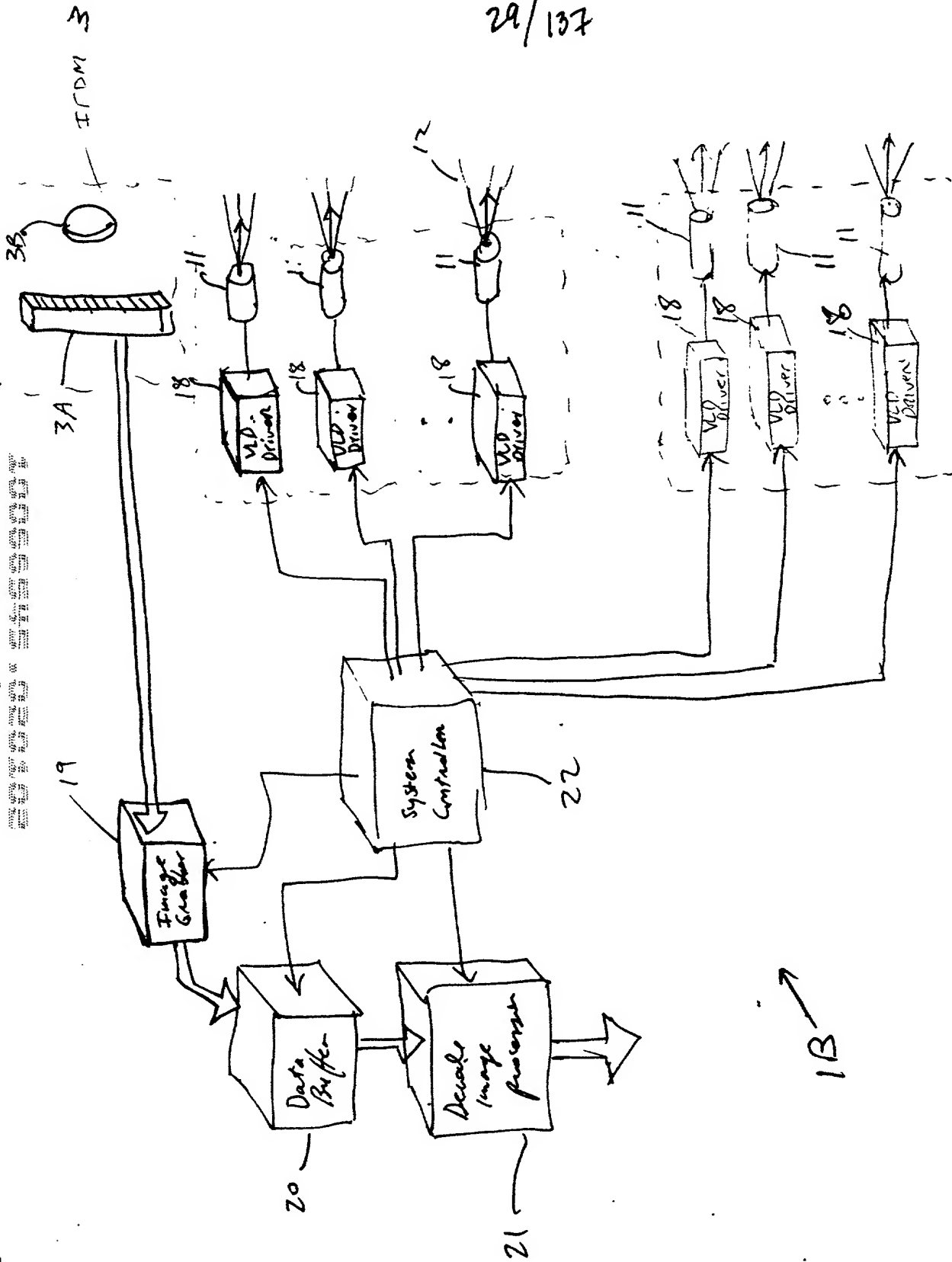
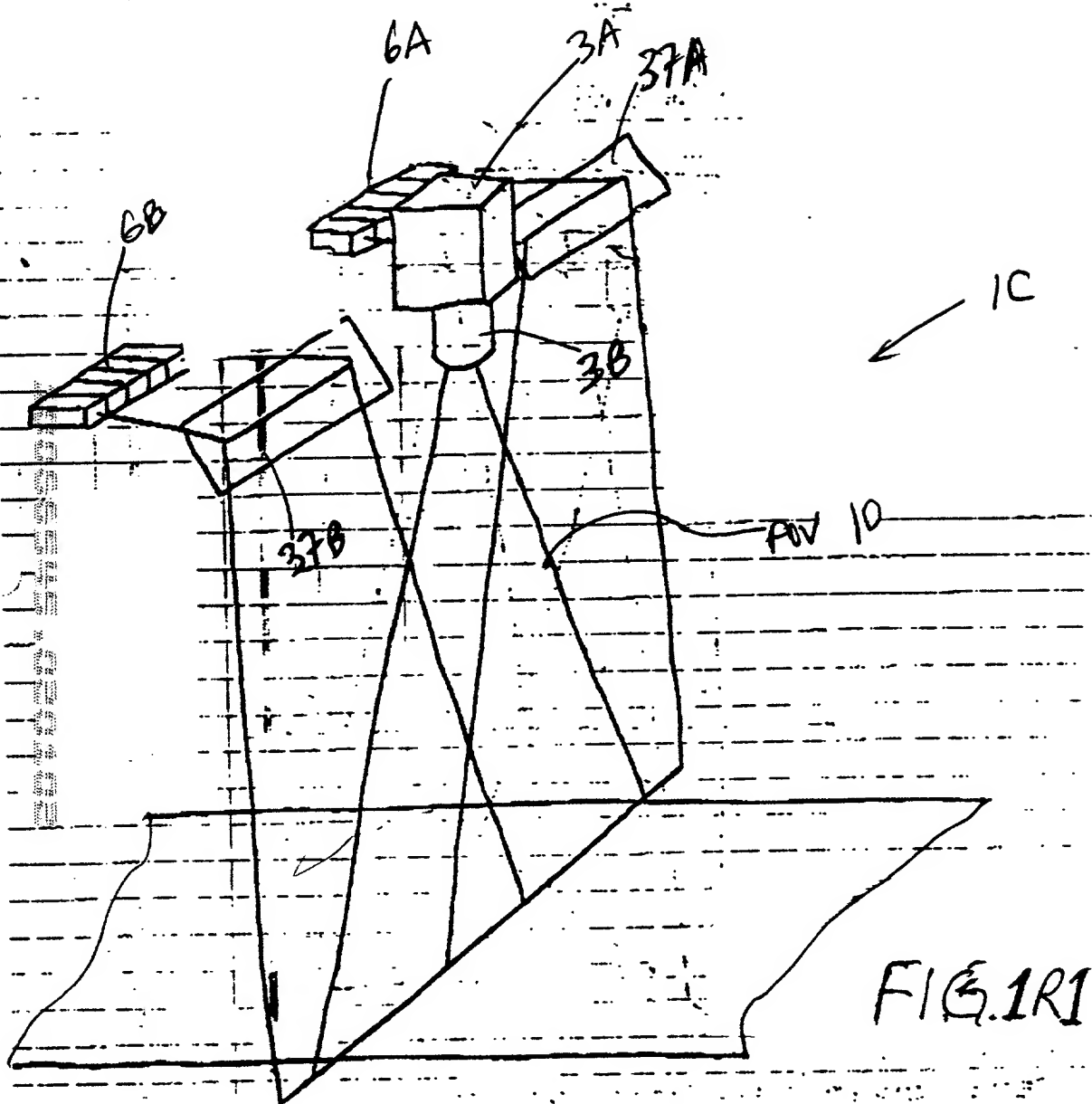


FIG. 1QZ

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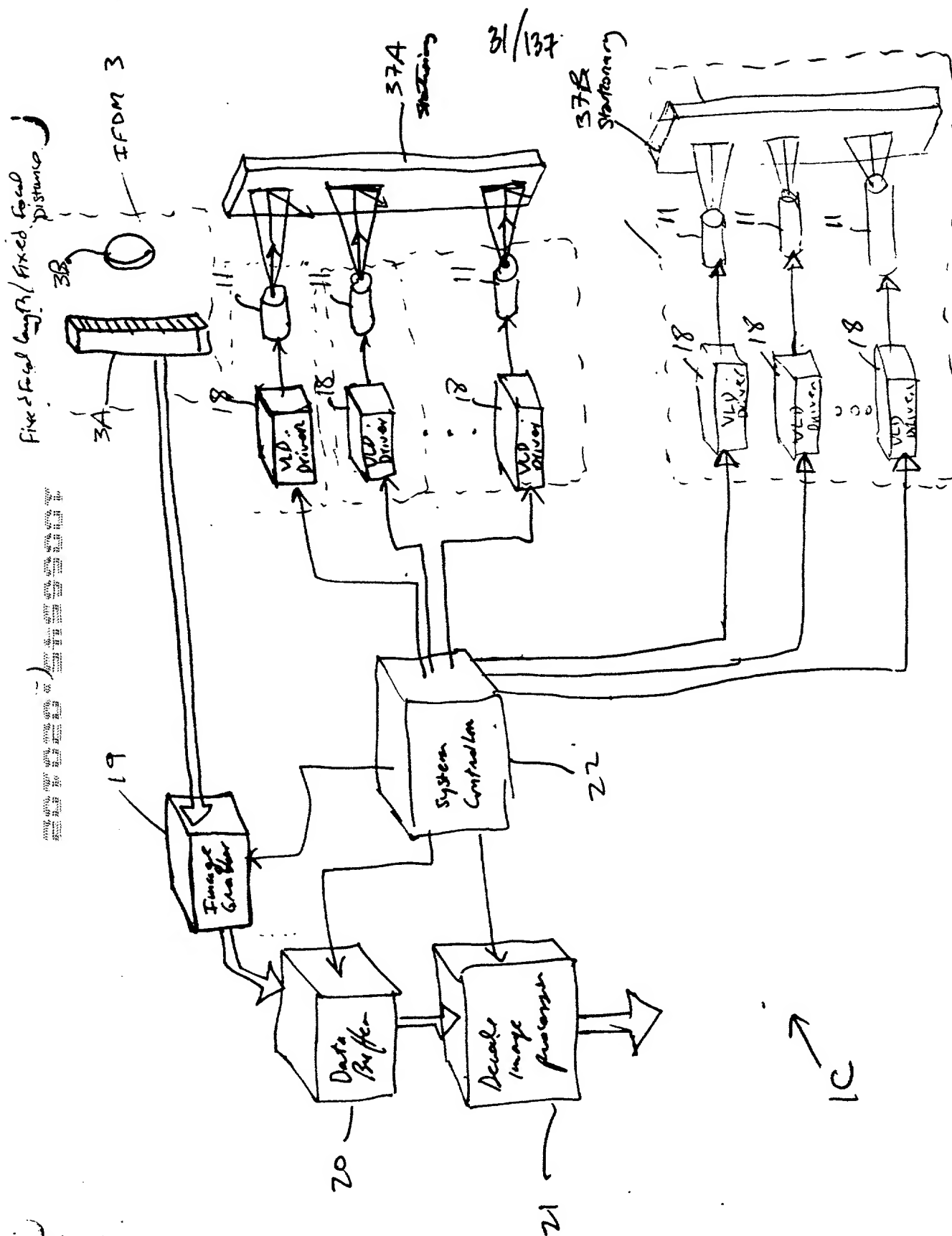


FIG. 1R2

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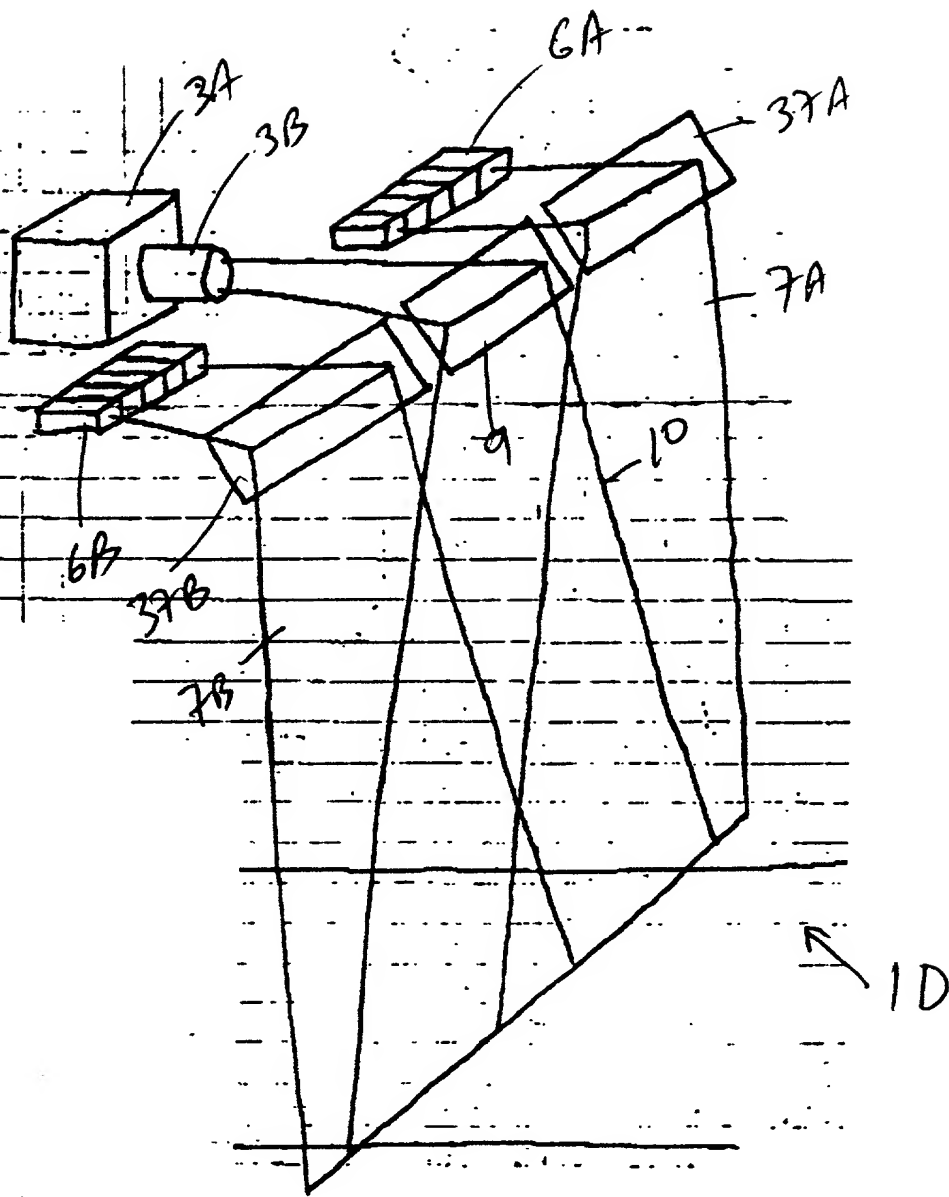
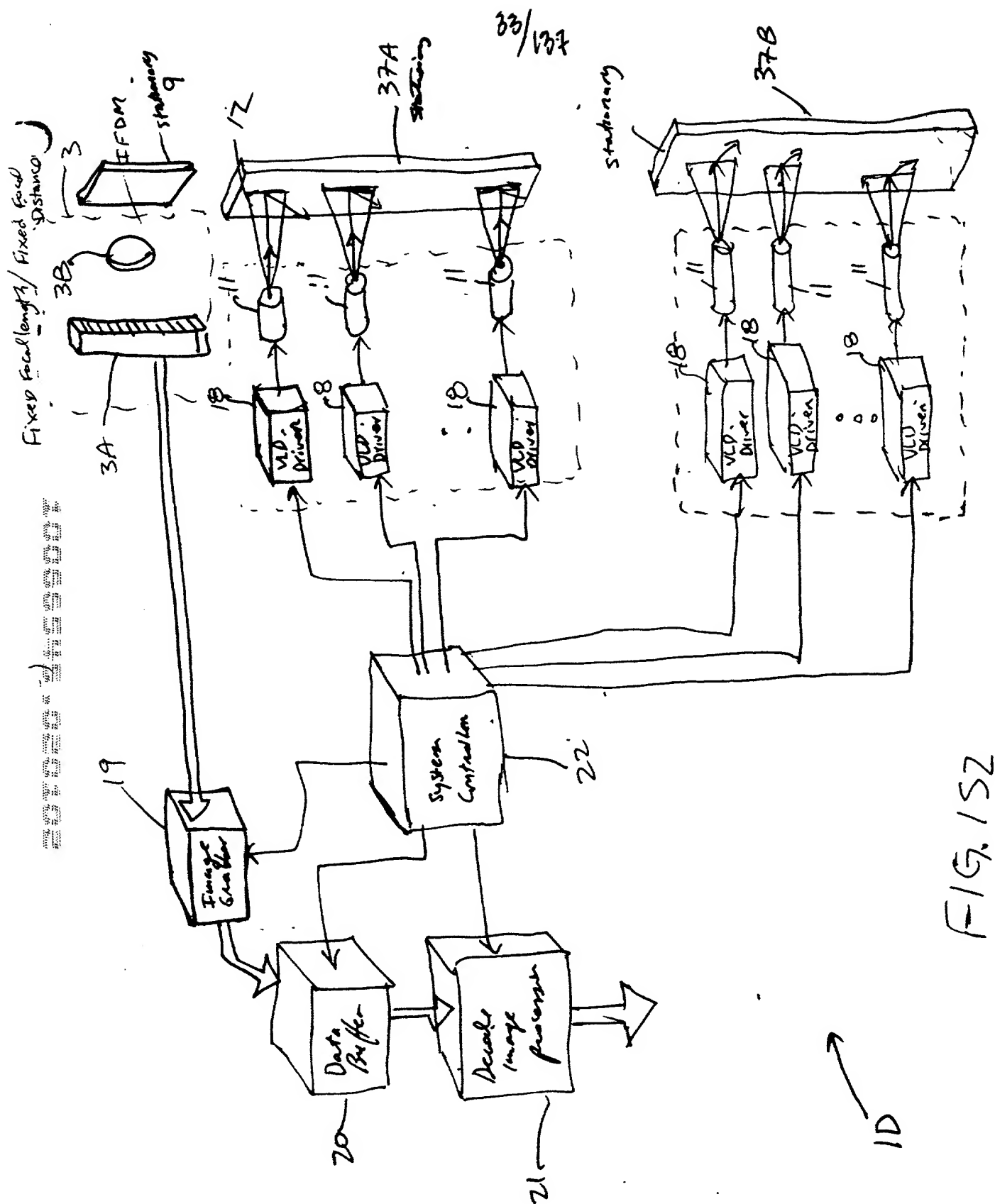


FIG. 1S1



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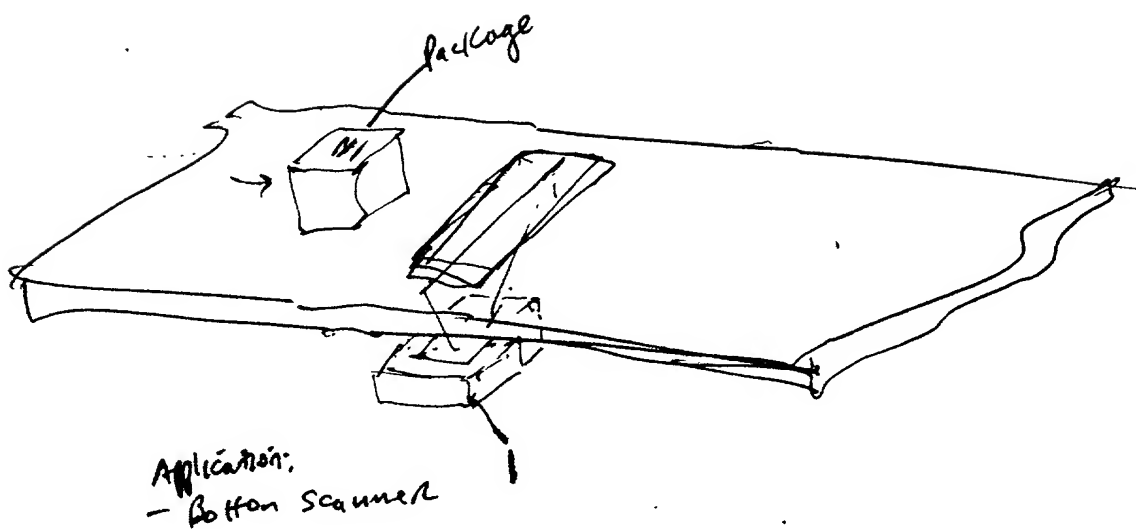


FIG 1T

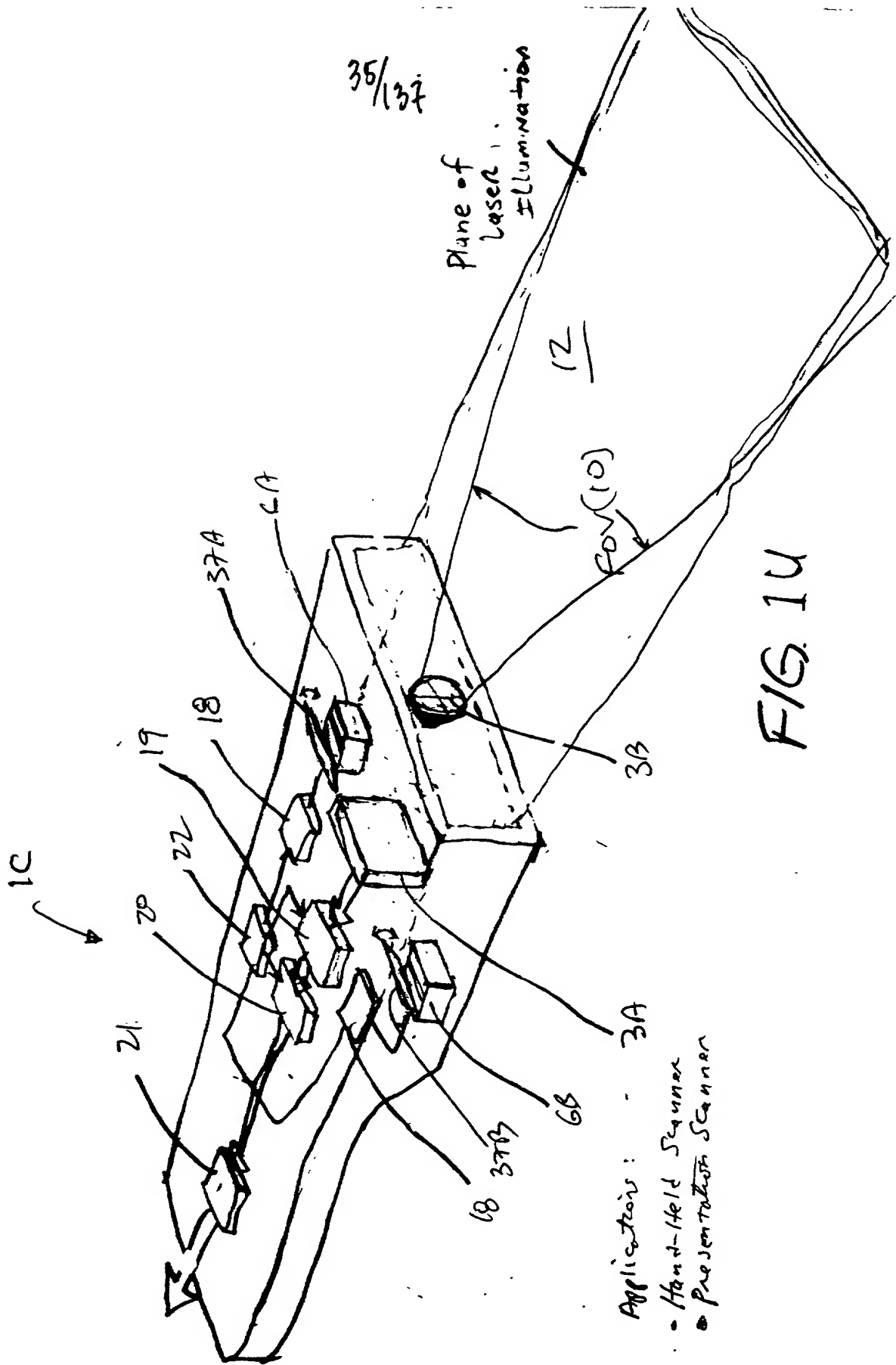


FIG. 1U

Applications: - 3A
 • Hand-Held Scanner
 • Presentation Scanner

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Plane of
Laser
Illumination

12

FOV(10)

3B

3A

6B

6B 37B

CA

37A

18

19

21

20

22

1C

2025-04-23 14:33:33

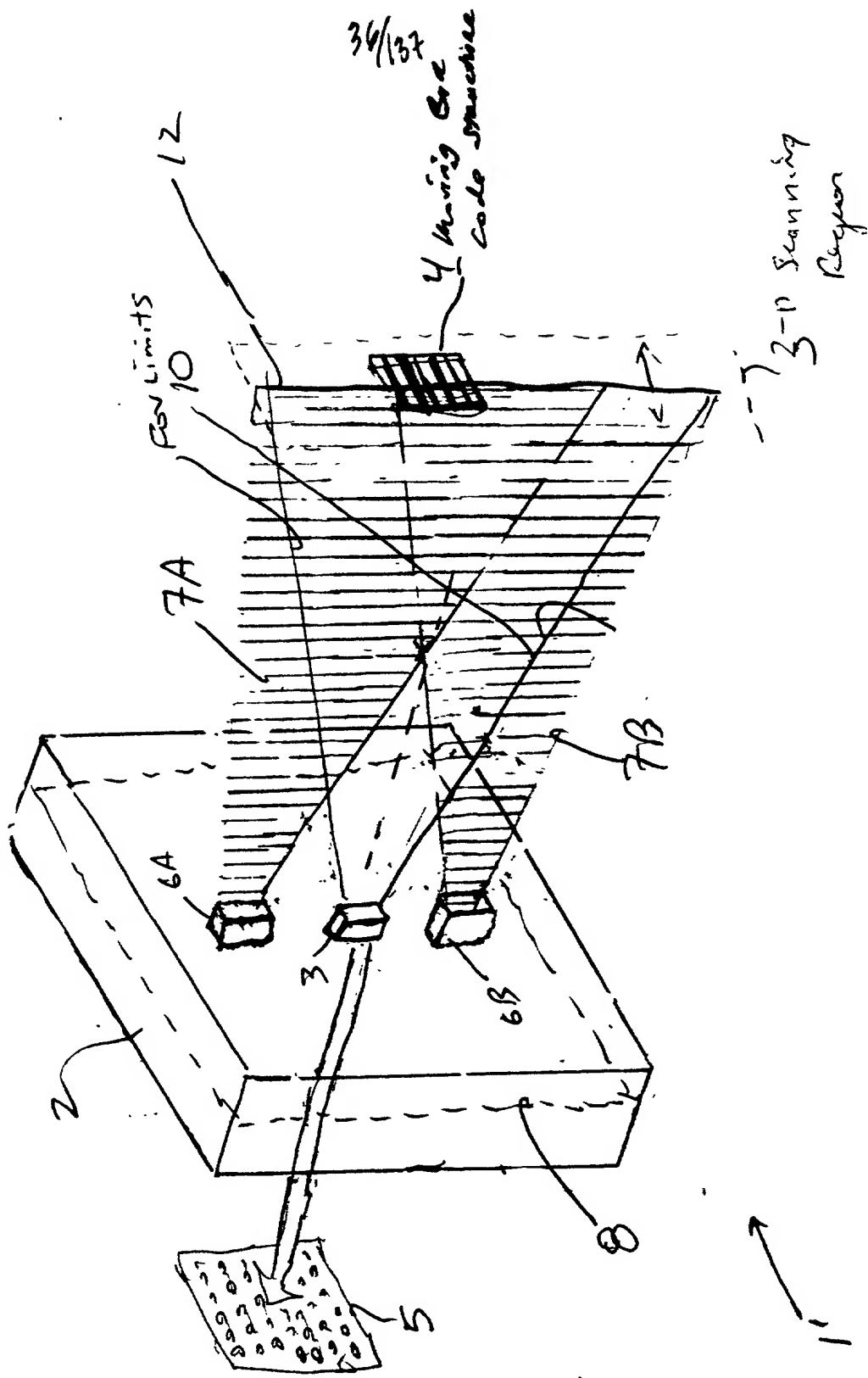


FIG. IVI

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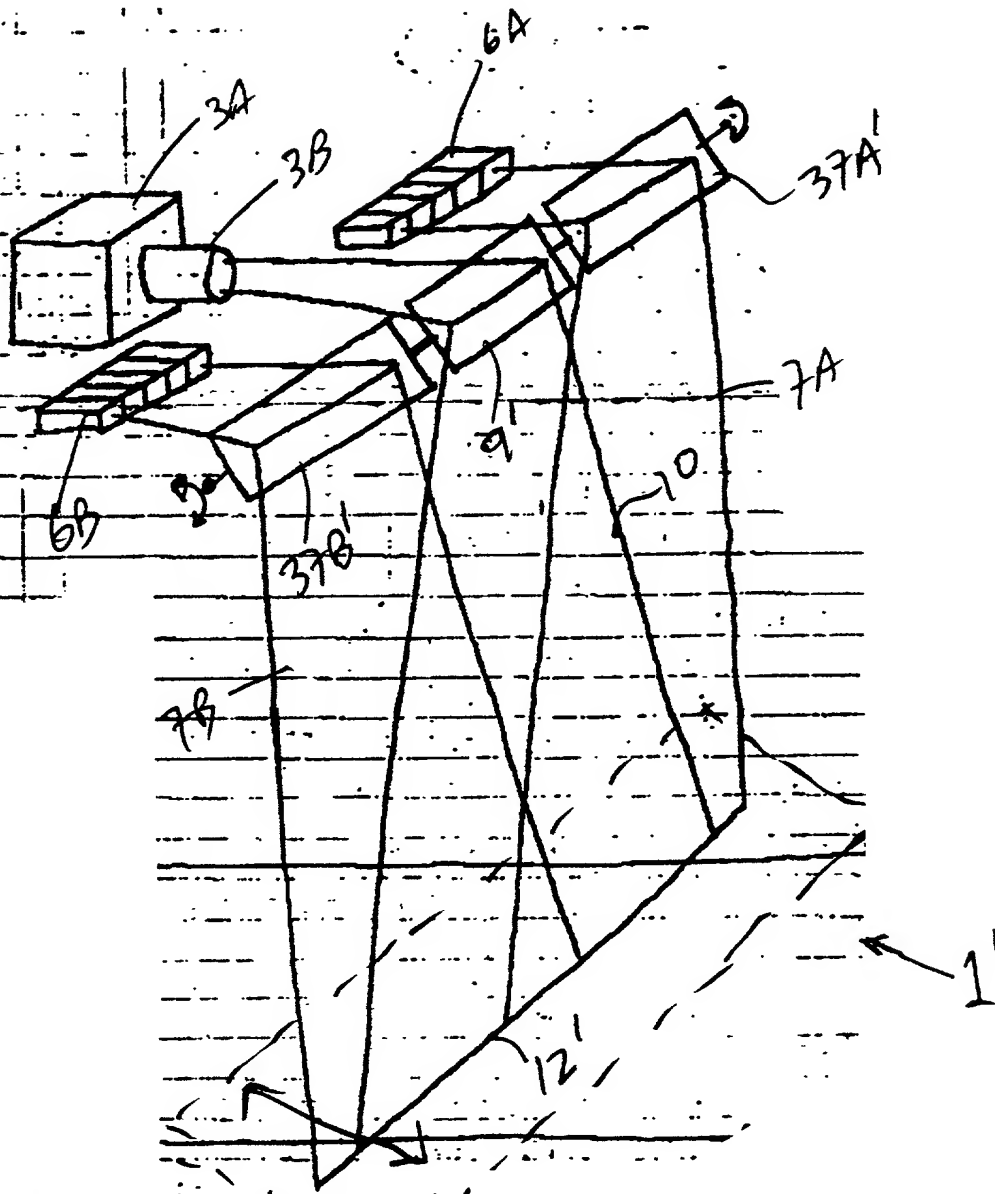


FIG. IV2

2-D
region
of
space

Fixed focal length / fixed focus distance

FIG. 1V3

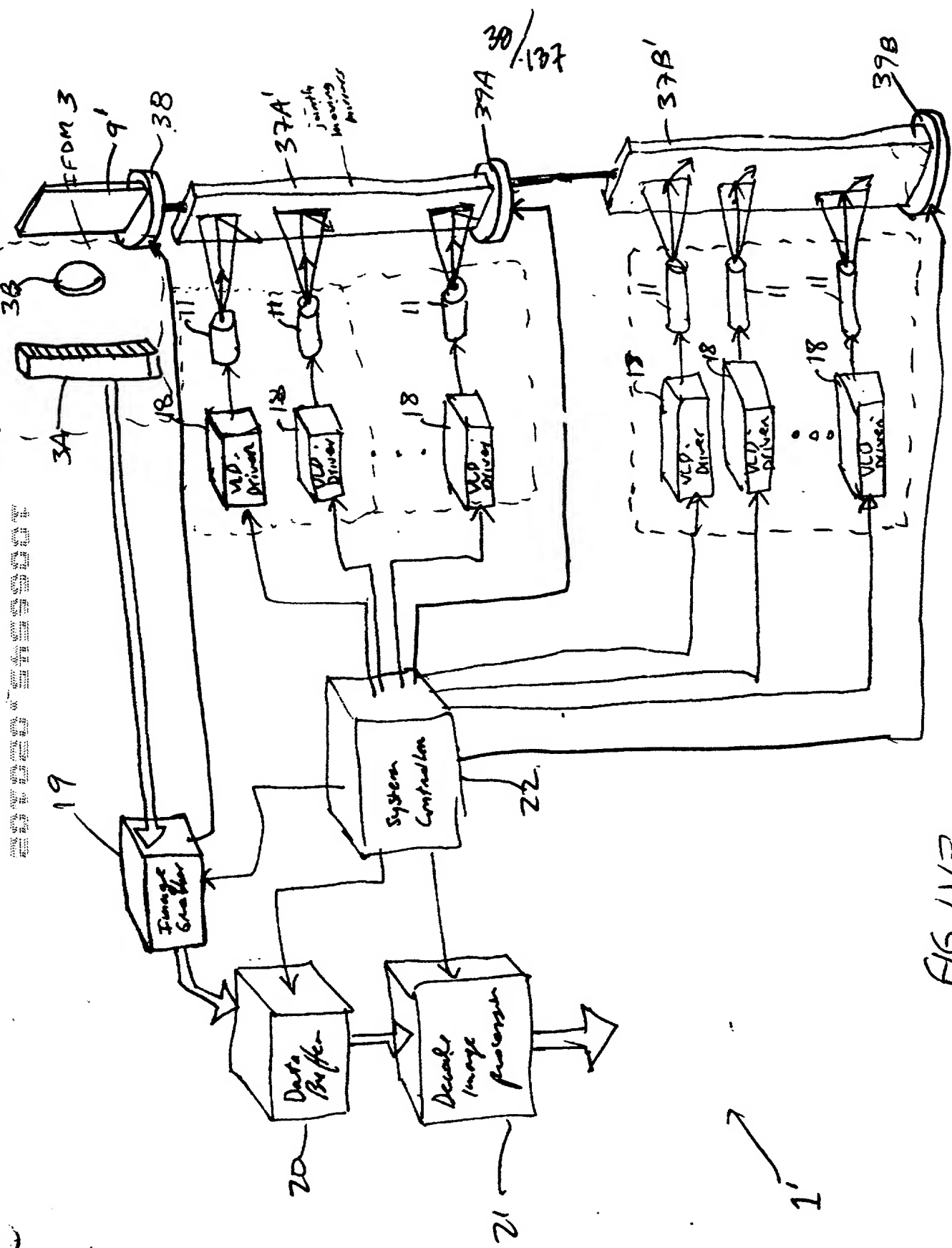
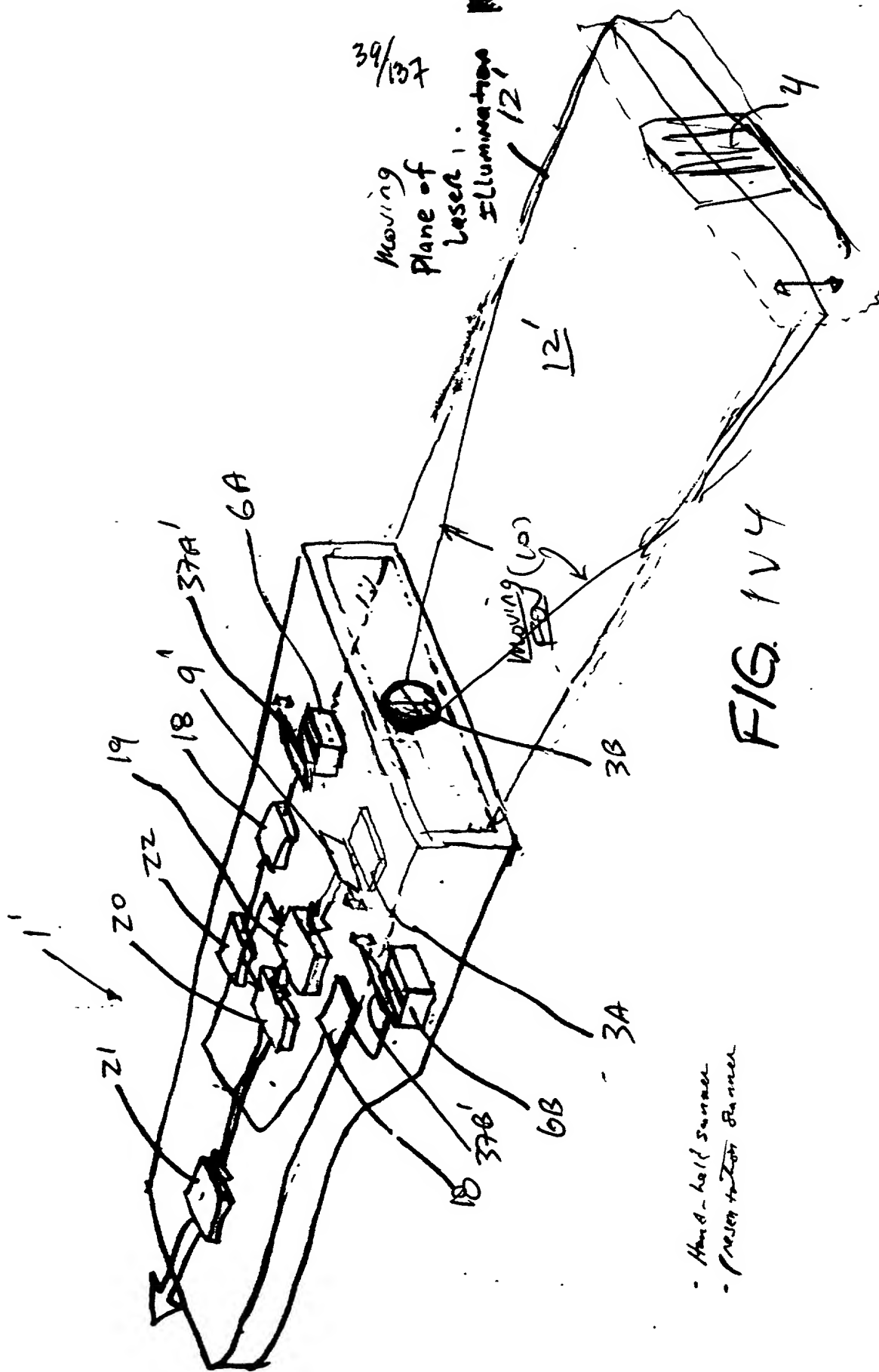
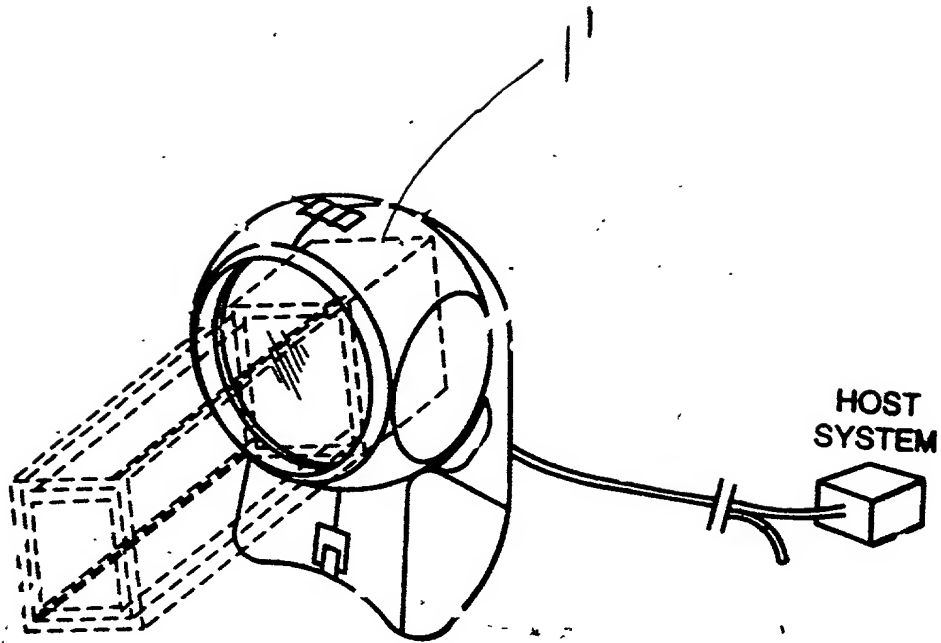


FIG. 1V3



- Hand A - held summer
- (resign to Left Partner

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(Presentation type scanner)

FIG. 1V5

2025-04-09 09:33:33

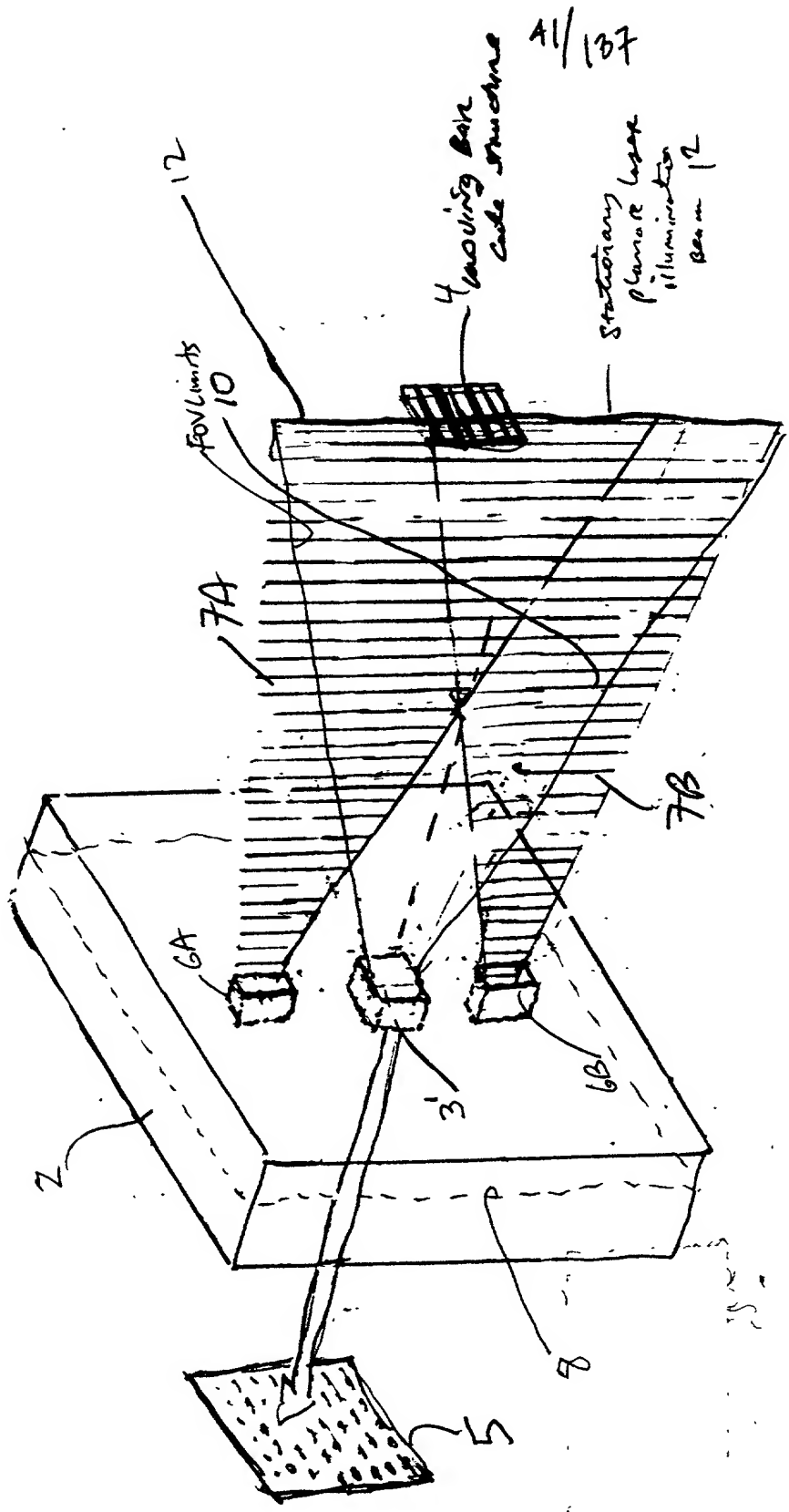


FIG. 2A

40

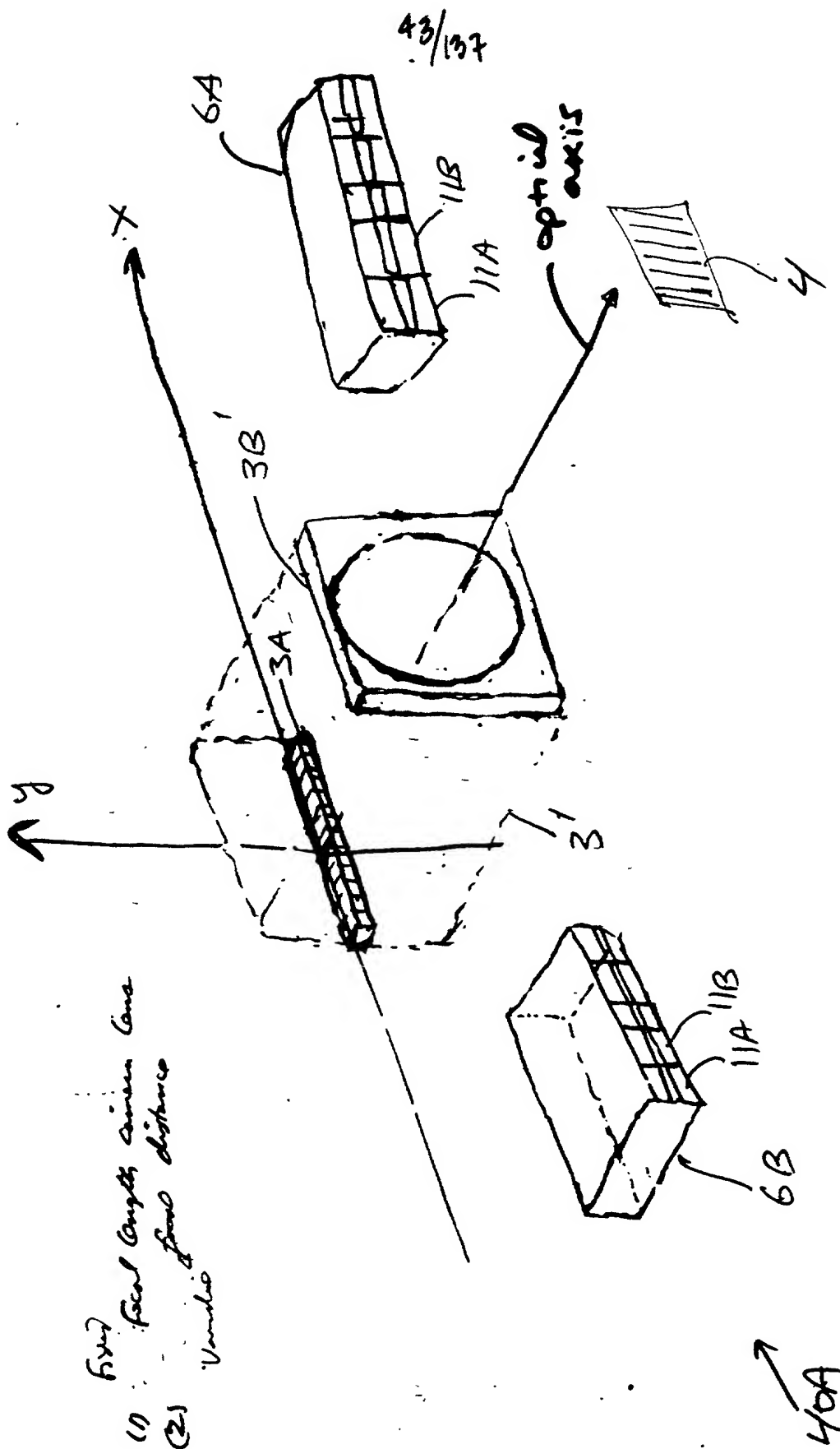


FIG. 2B2

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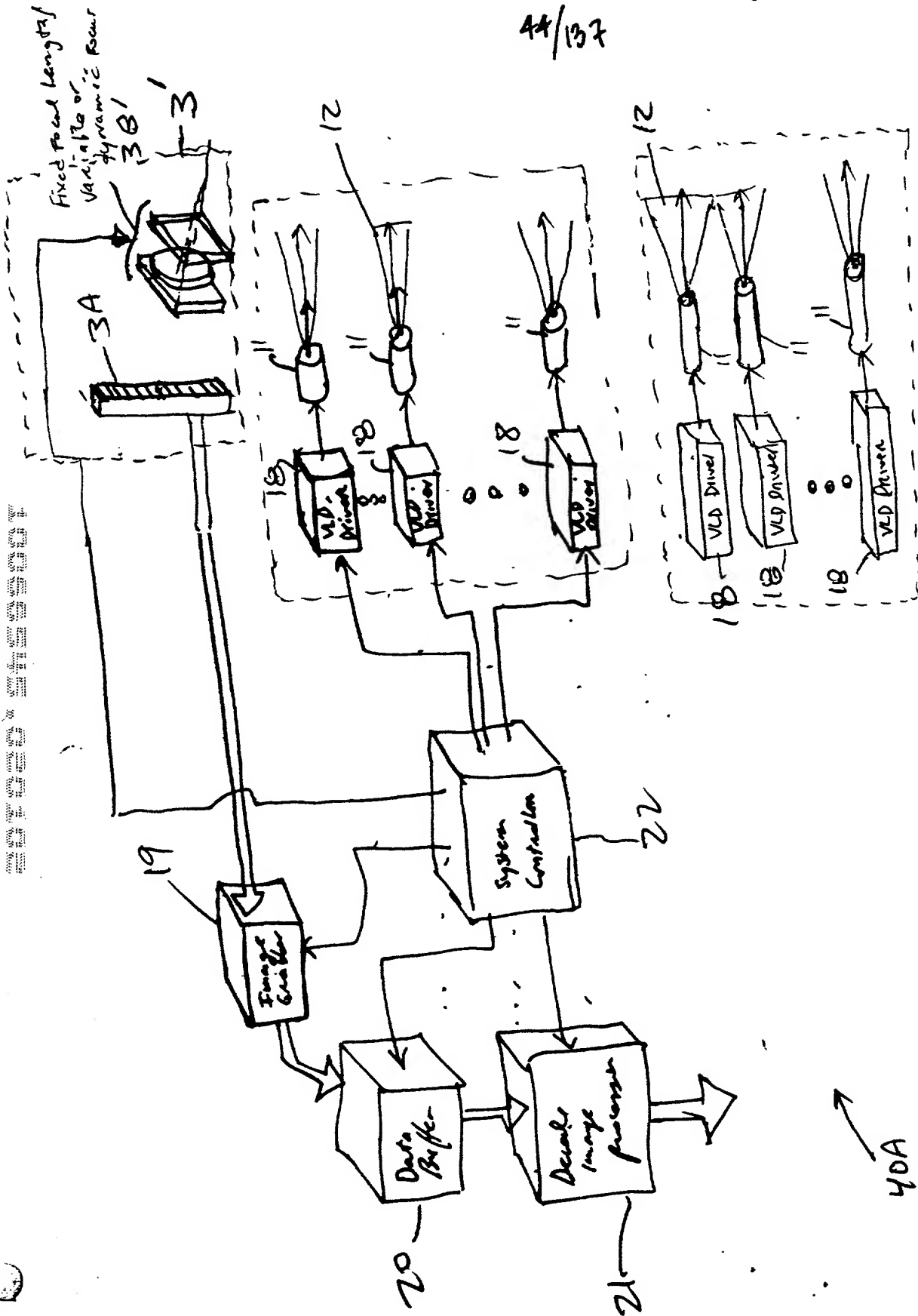


FIG. 2C1

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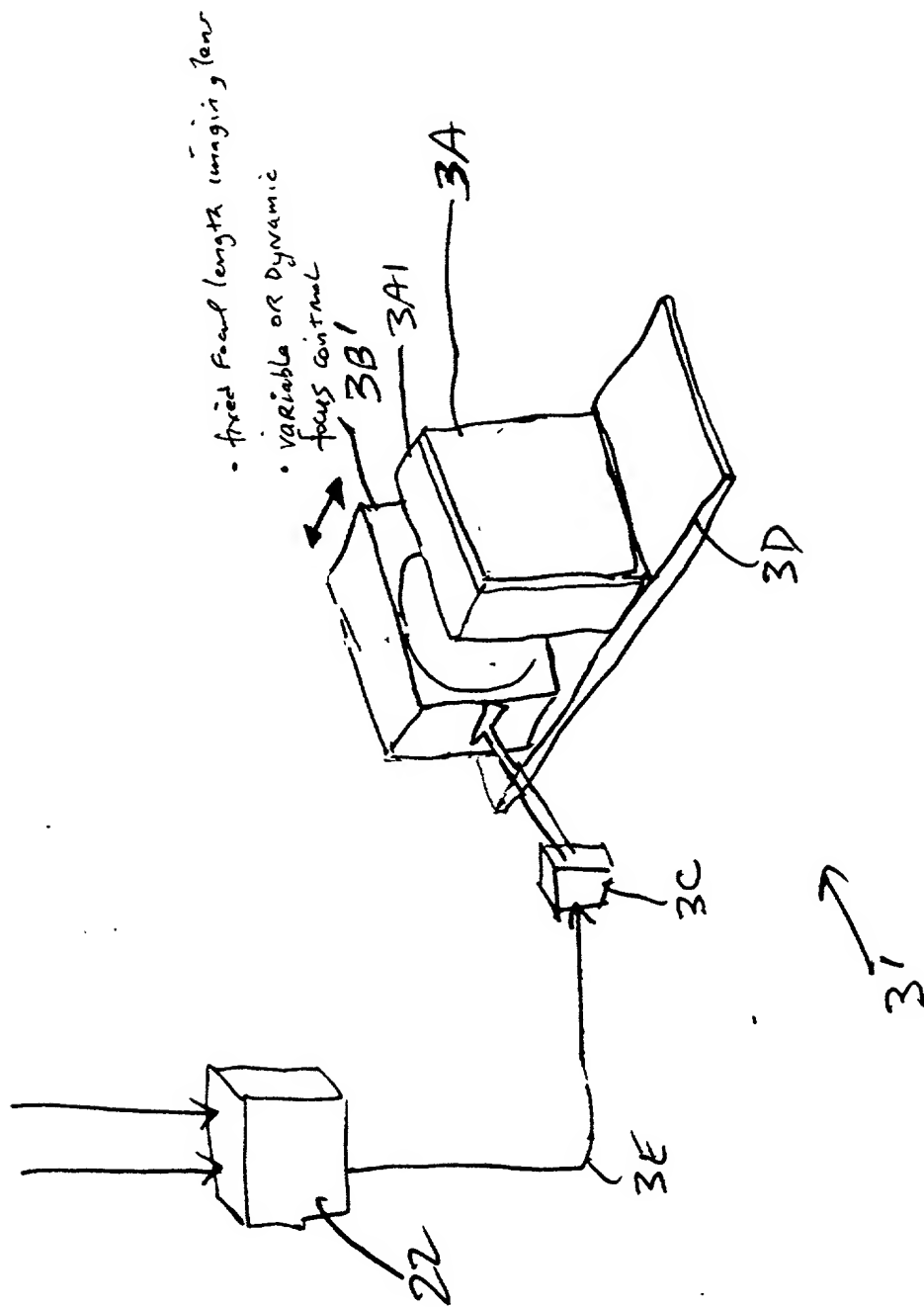


FIG. 2C2

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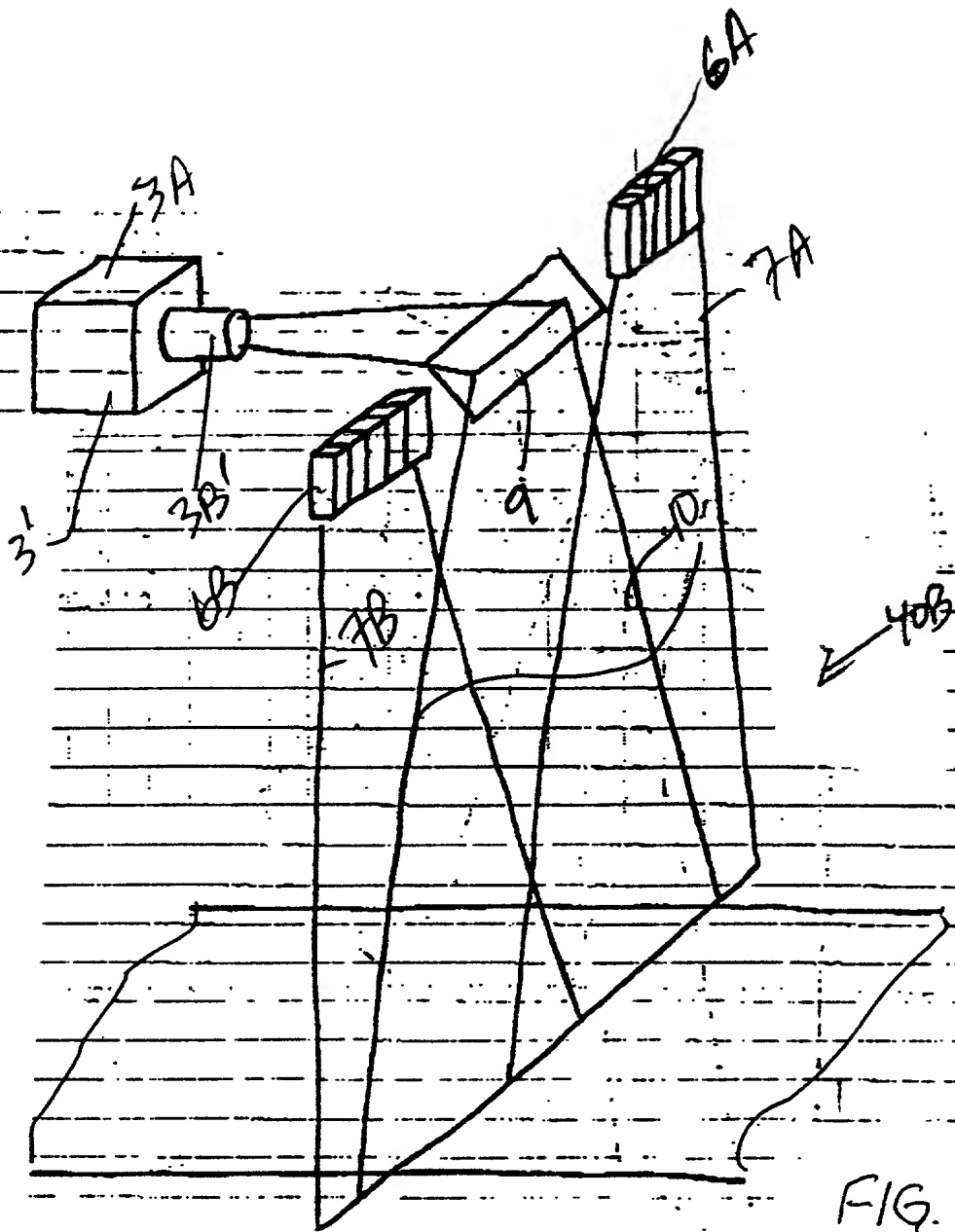


FIG. 2D1

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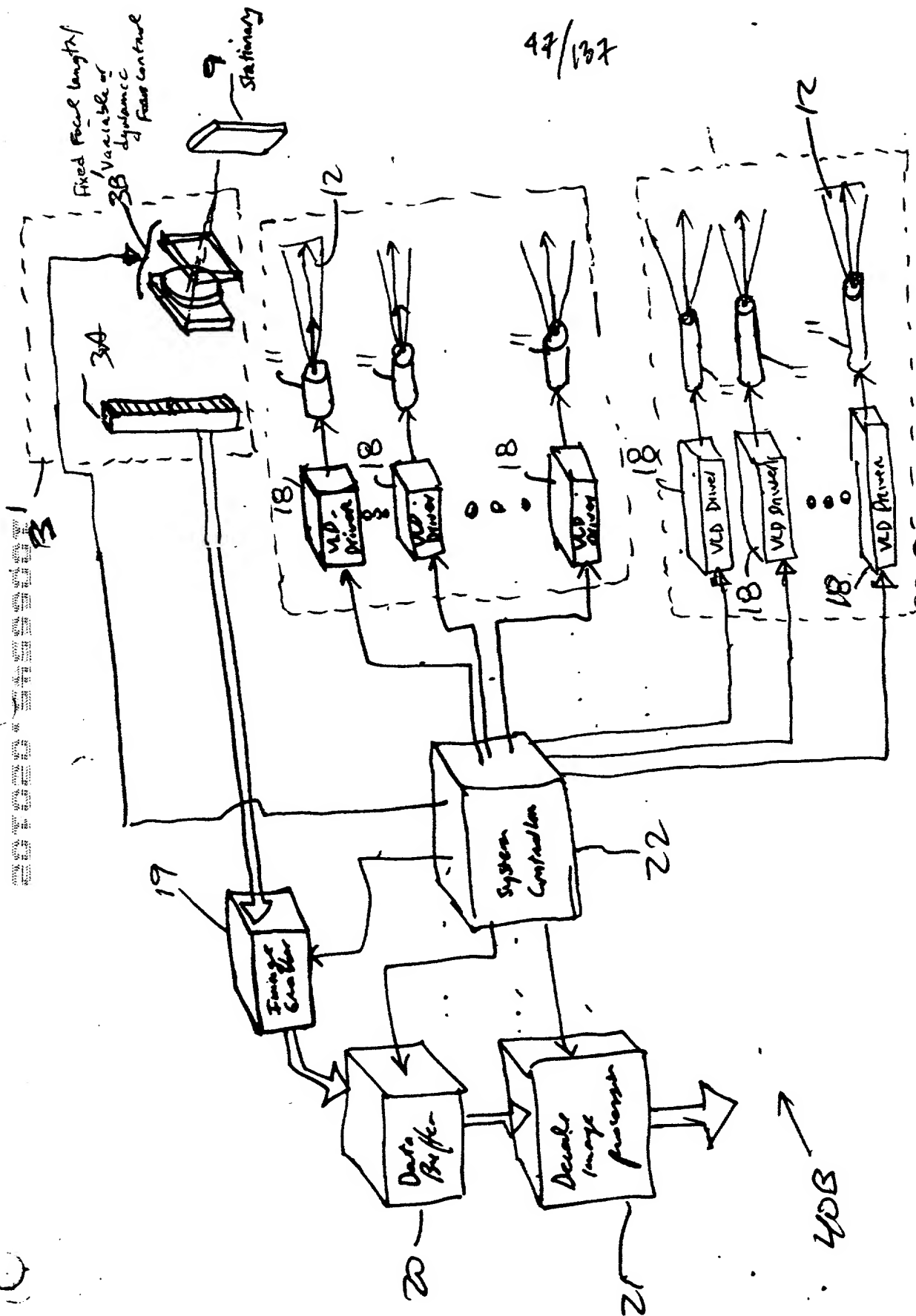


FIG. 2D2

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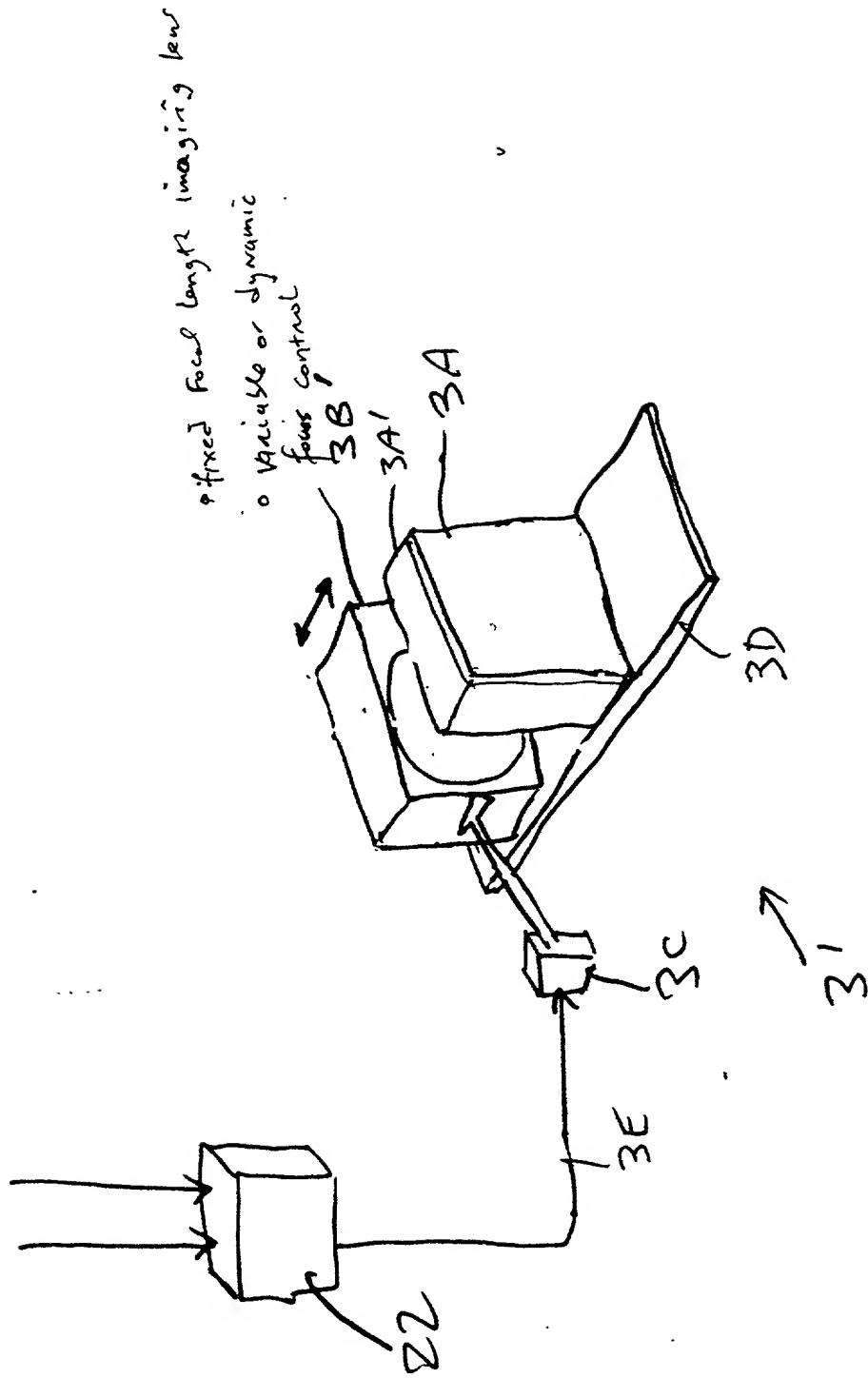


FIG. 2D3

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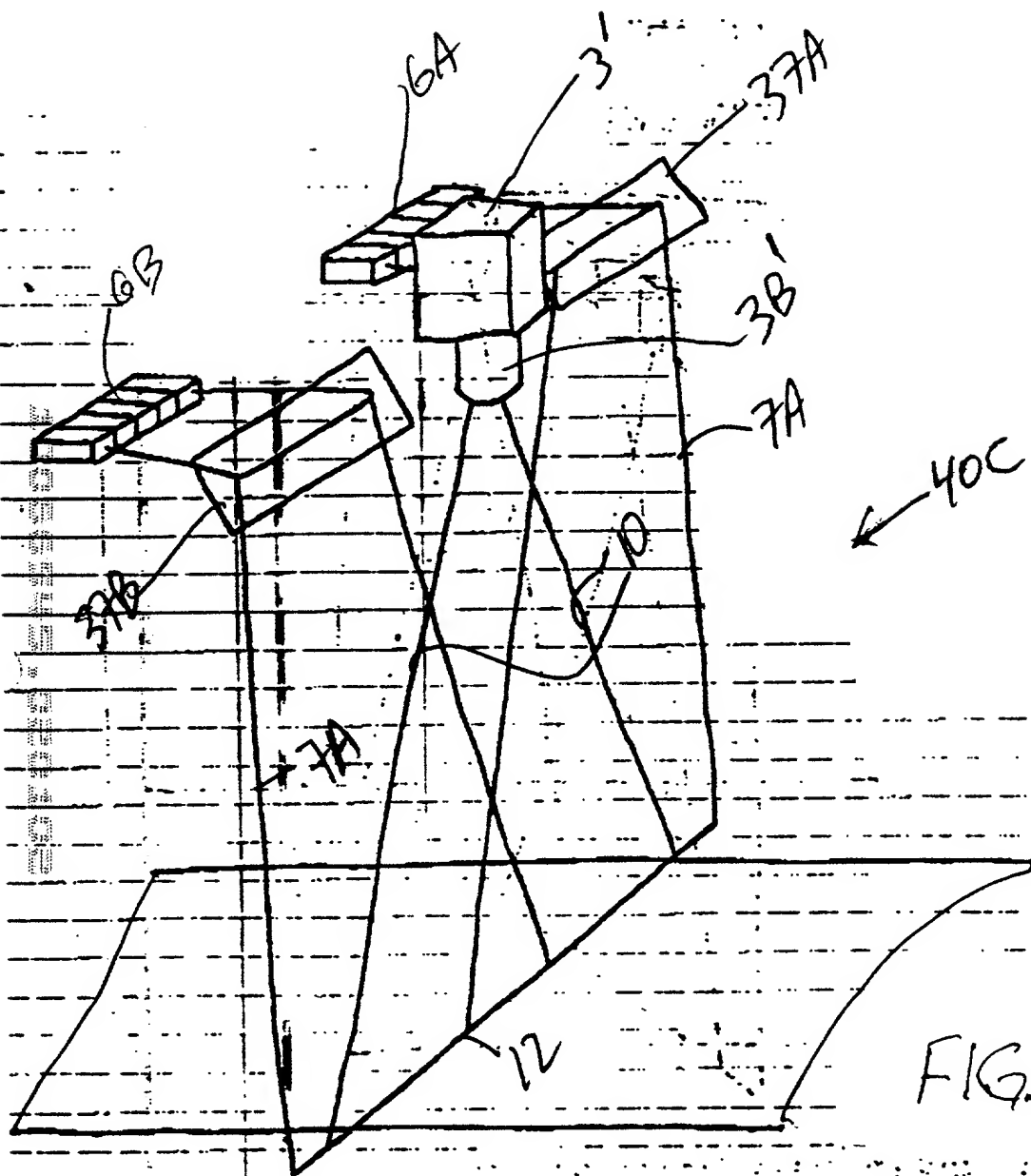


FIG. 2E1

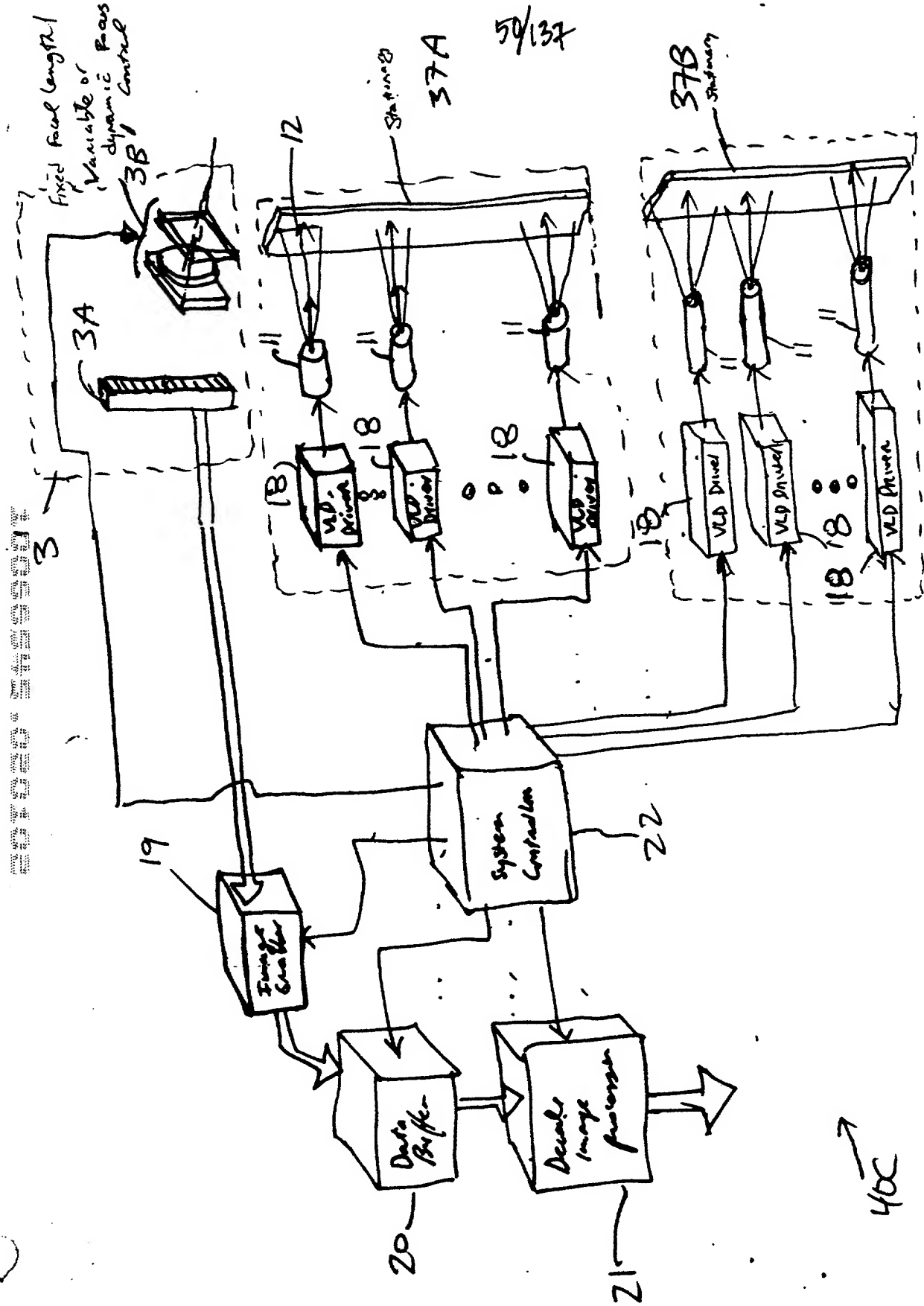


FIG. 2E2

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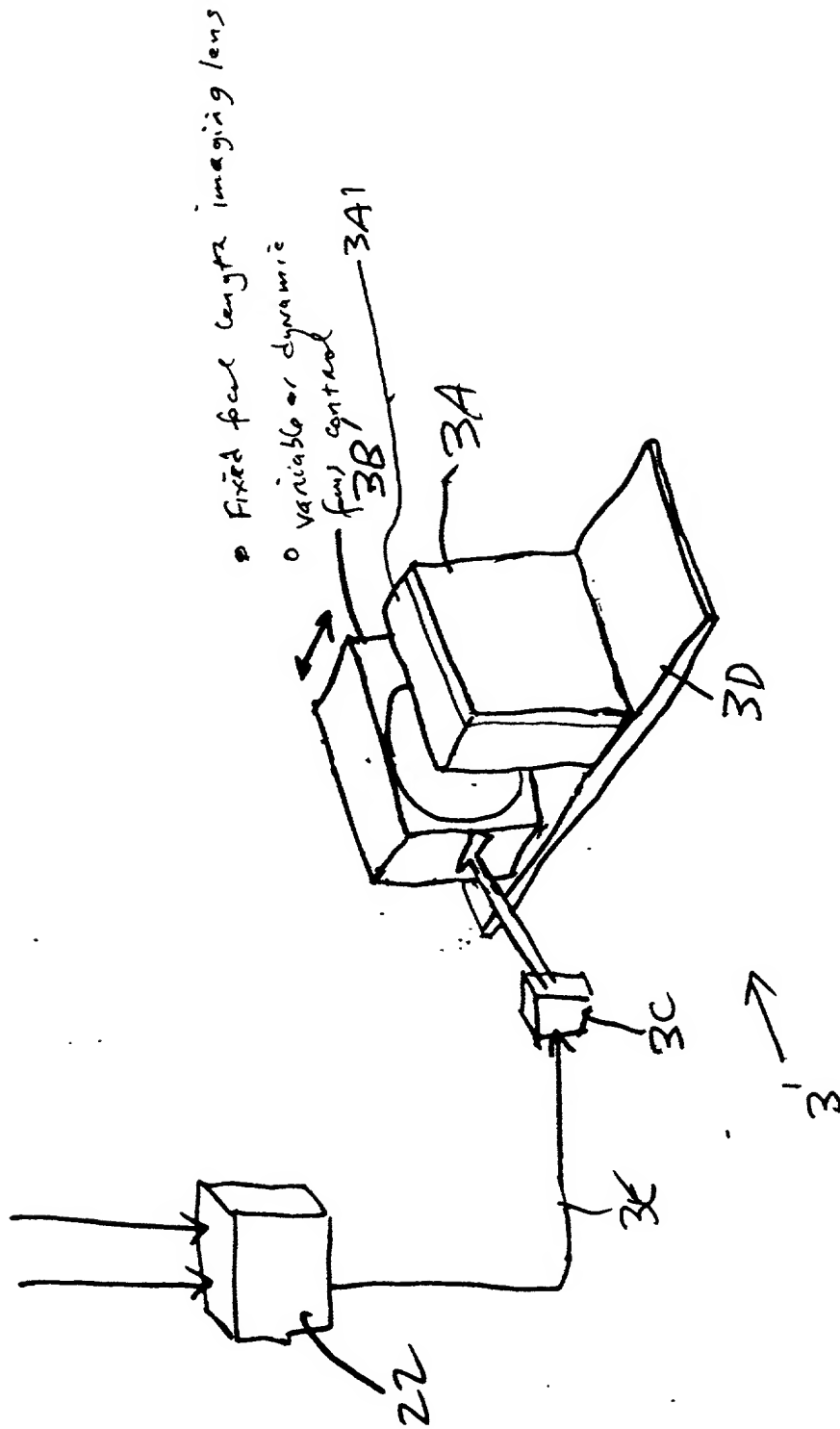


FIG. 2E3

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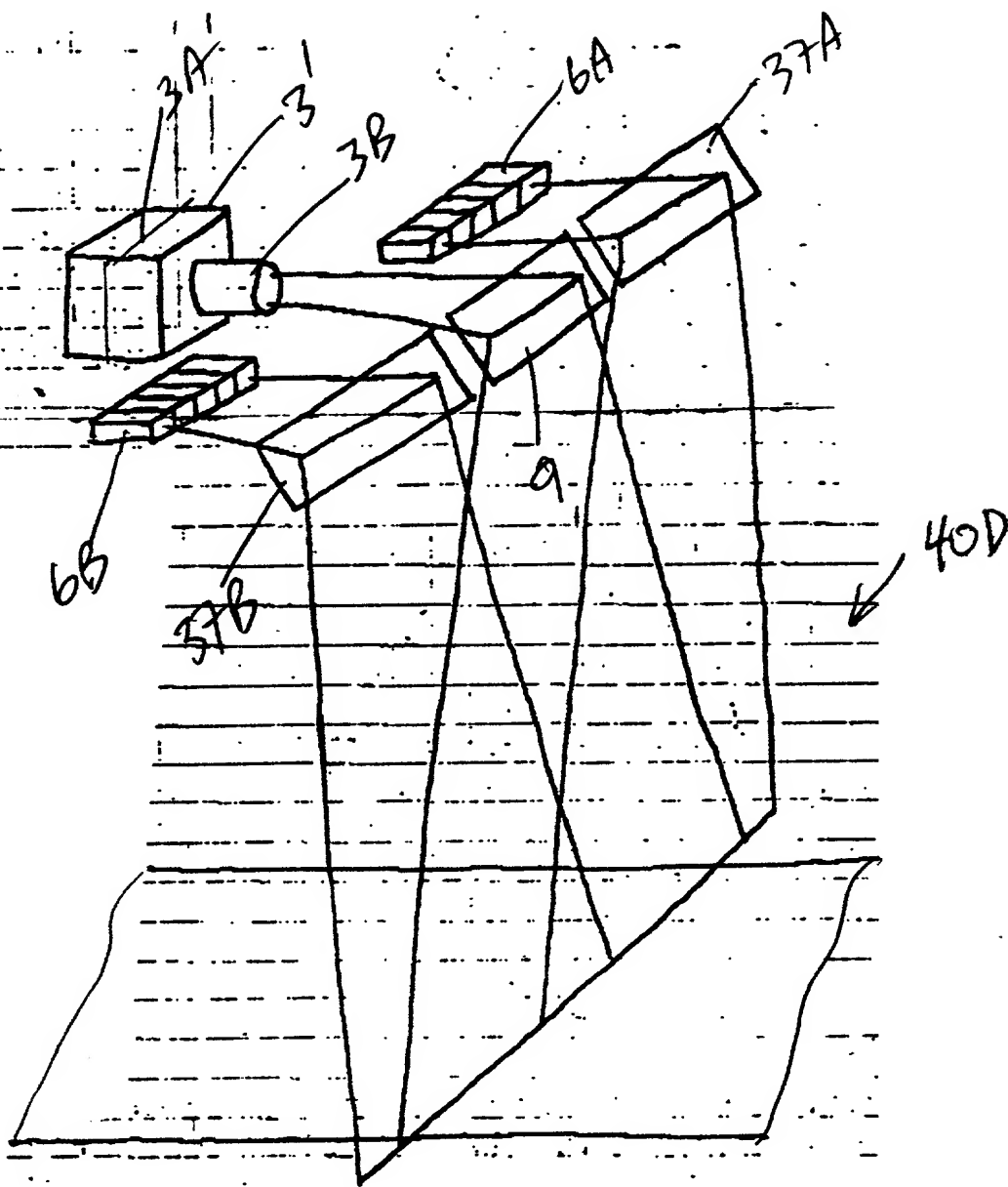


FIG 2F1

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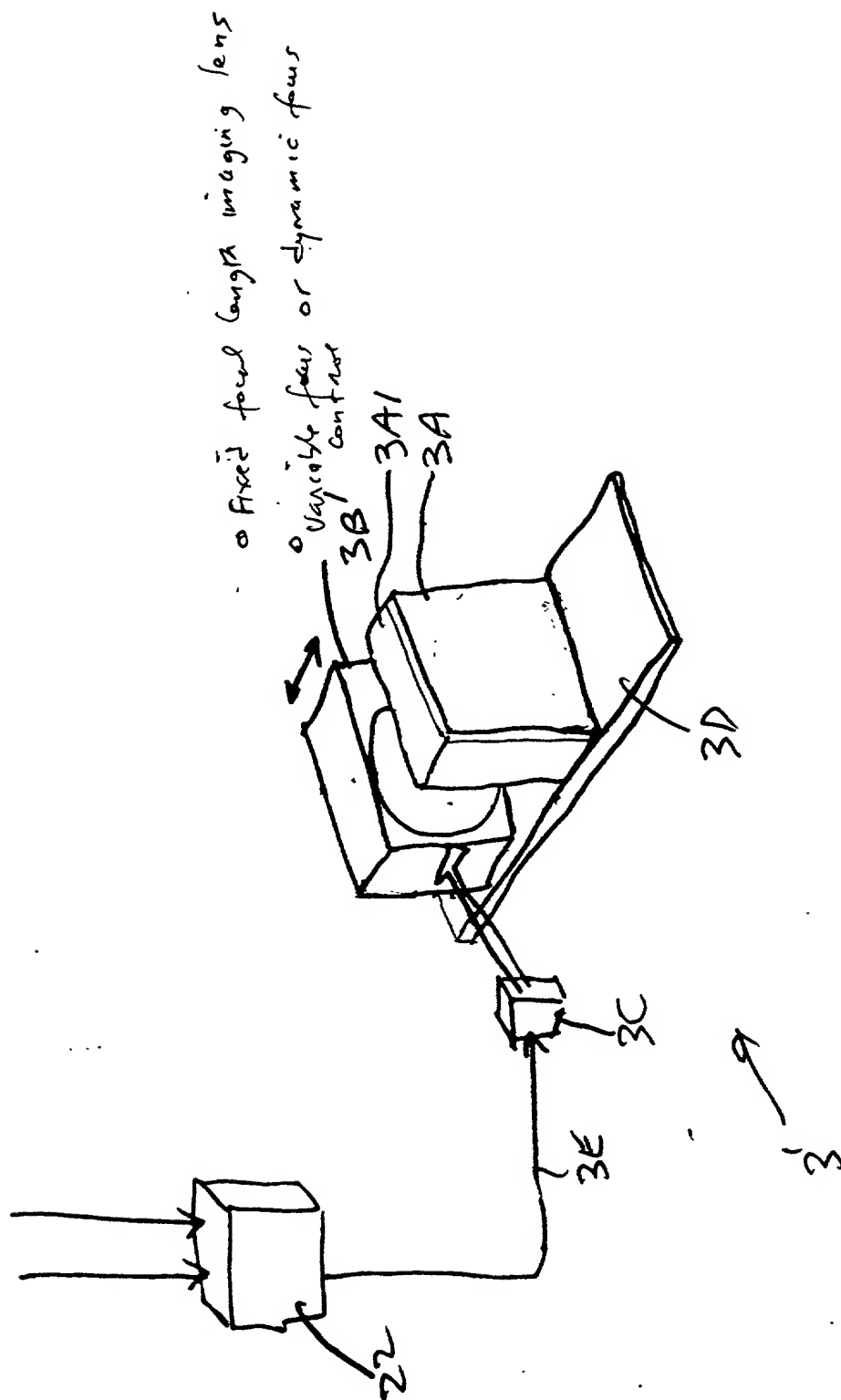


FIG. 2F3

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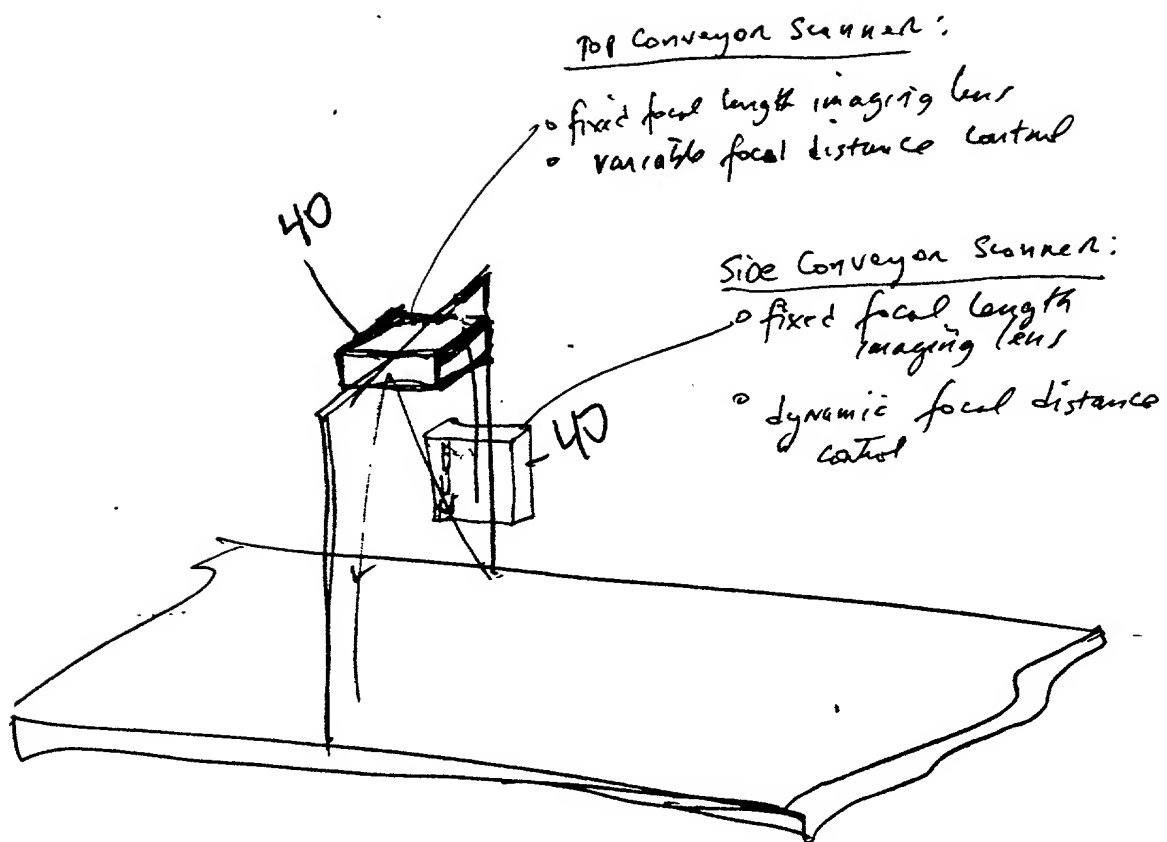
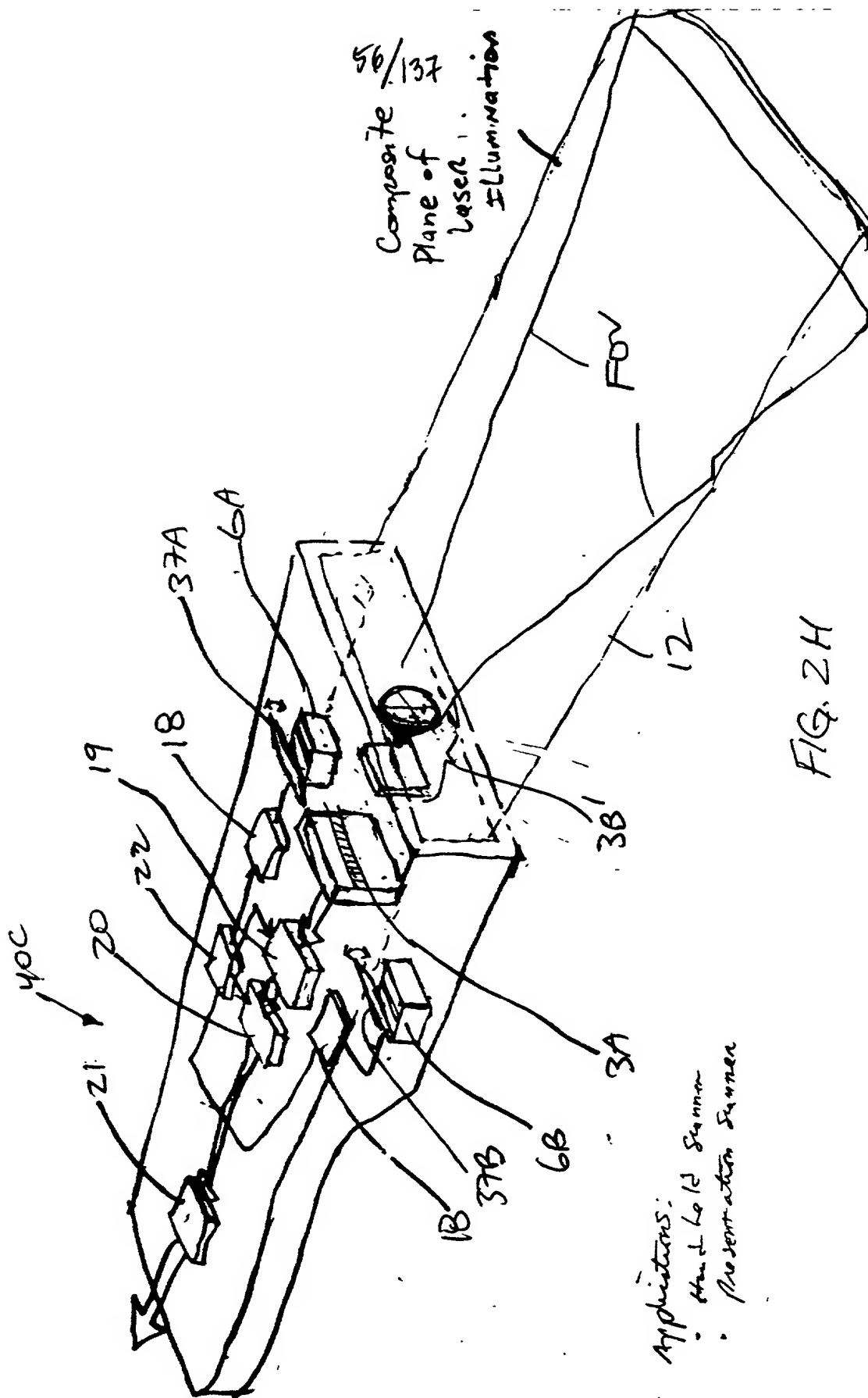


FIG. 2G



- Applications:
- Standard 10th Standard
- Presentation System

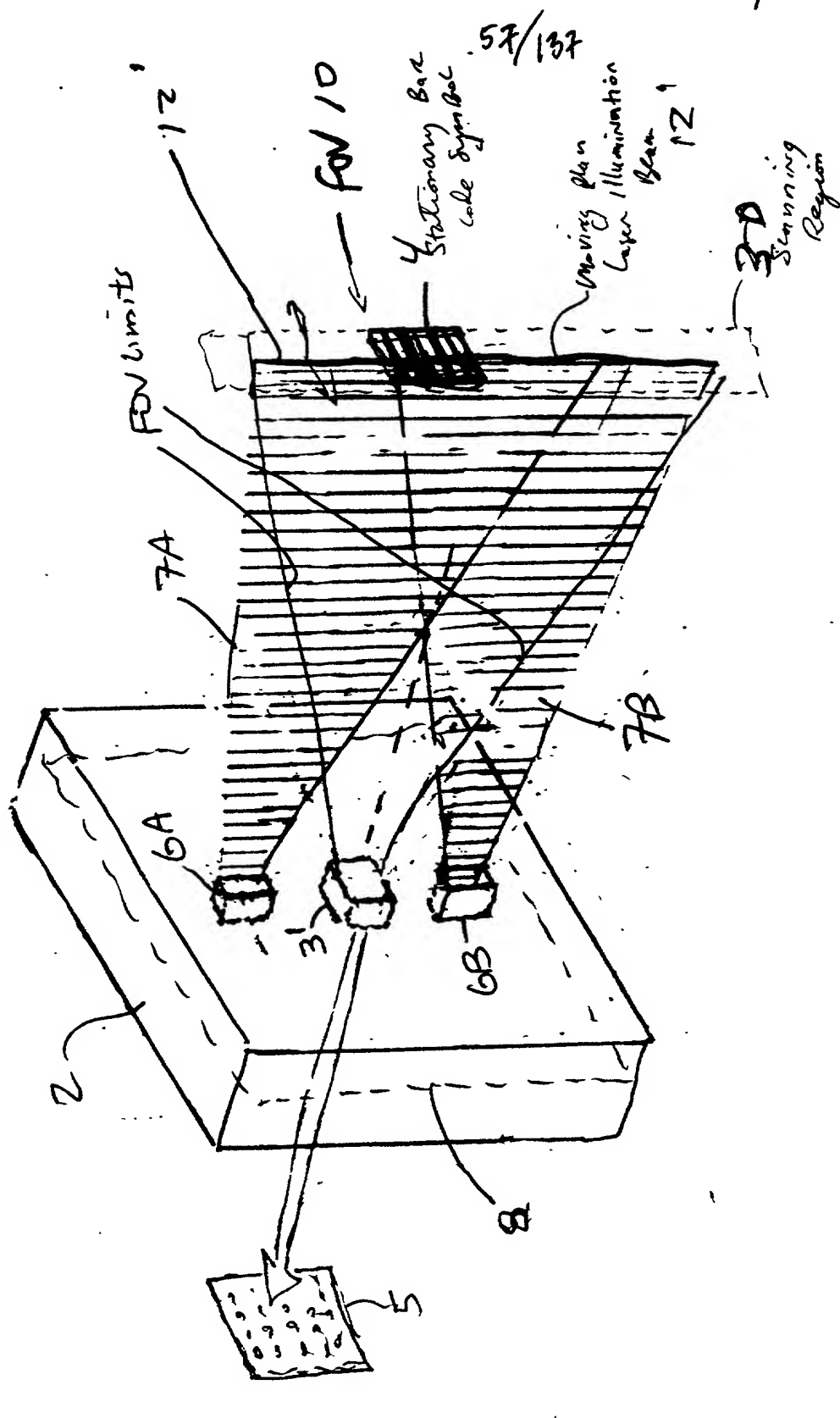
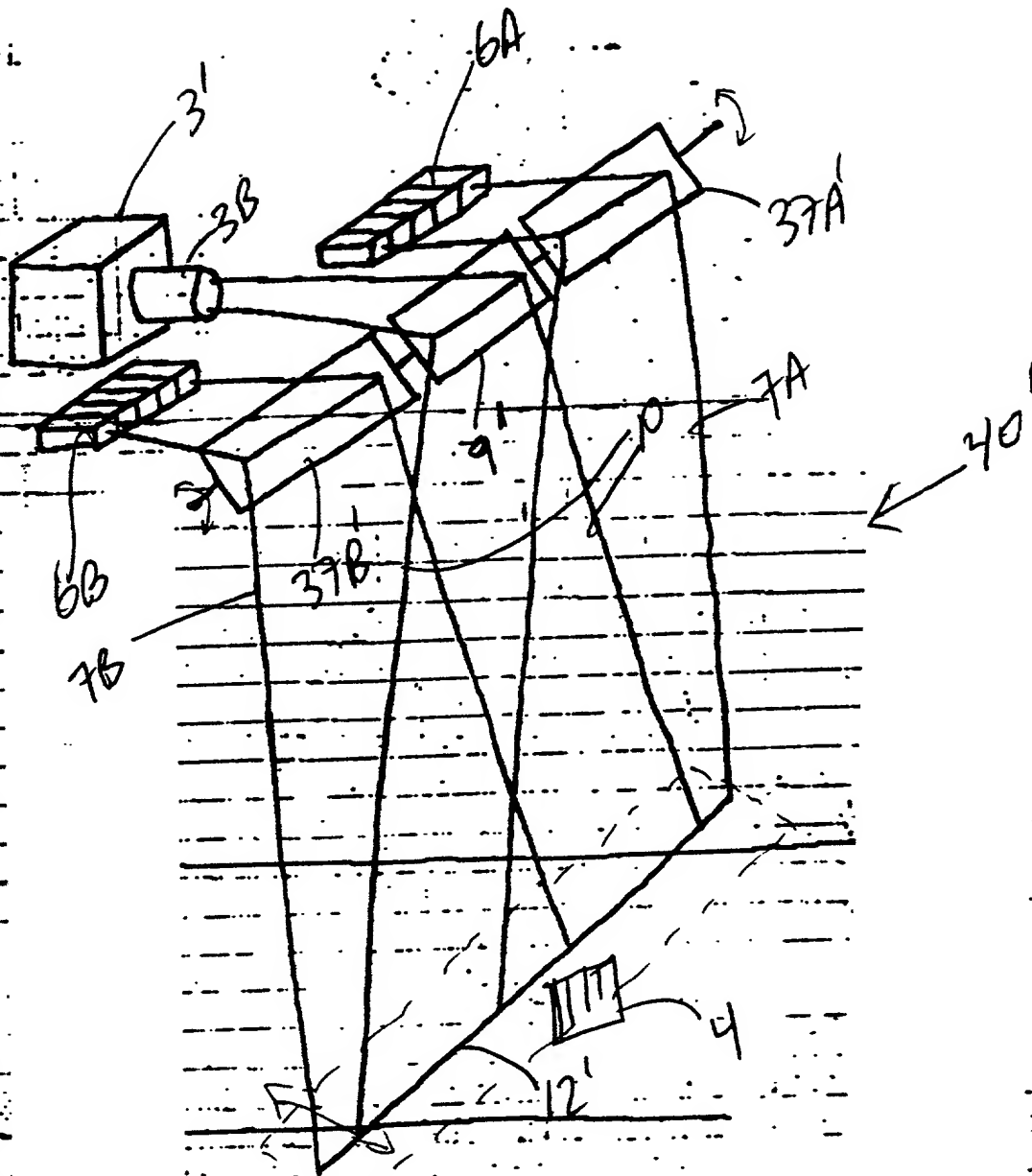


FIG. 2II

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3-D
Scanning
Region

FIG 2I2

0

0.0

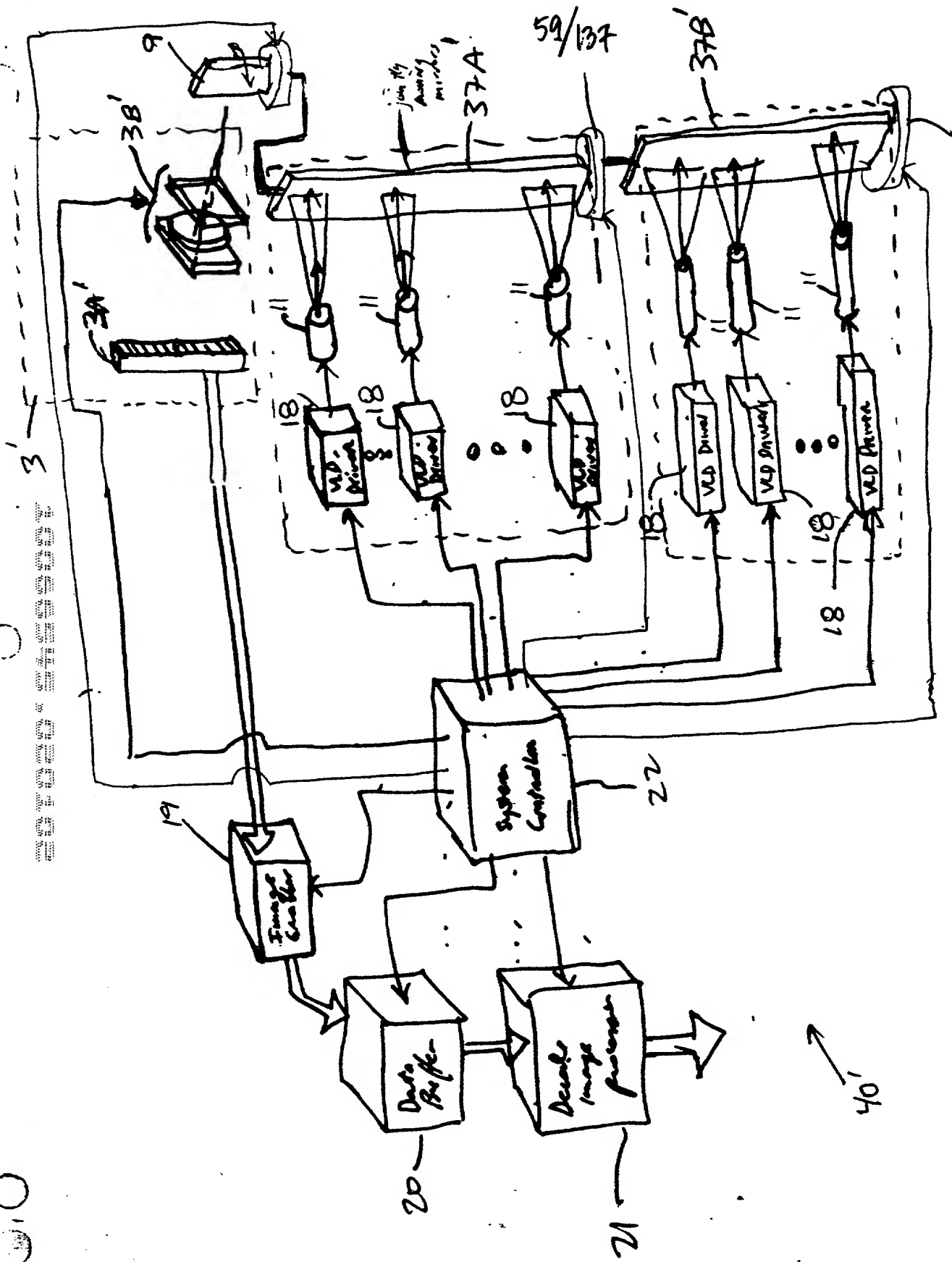


FIG. 2I3

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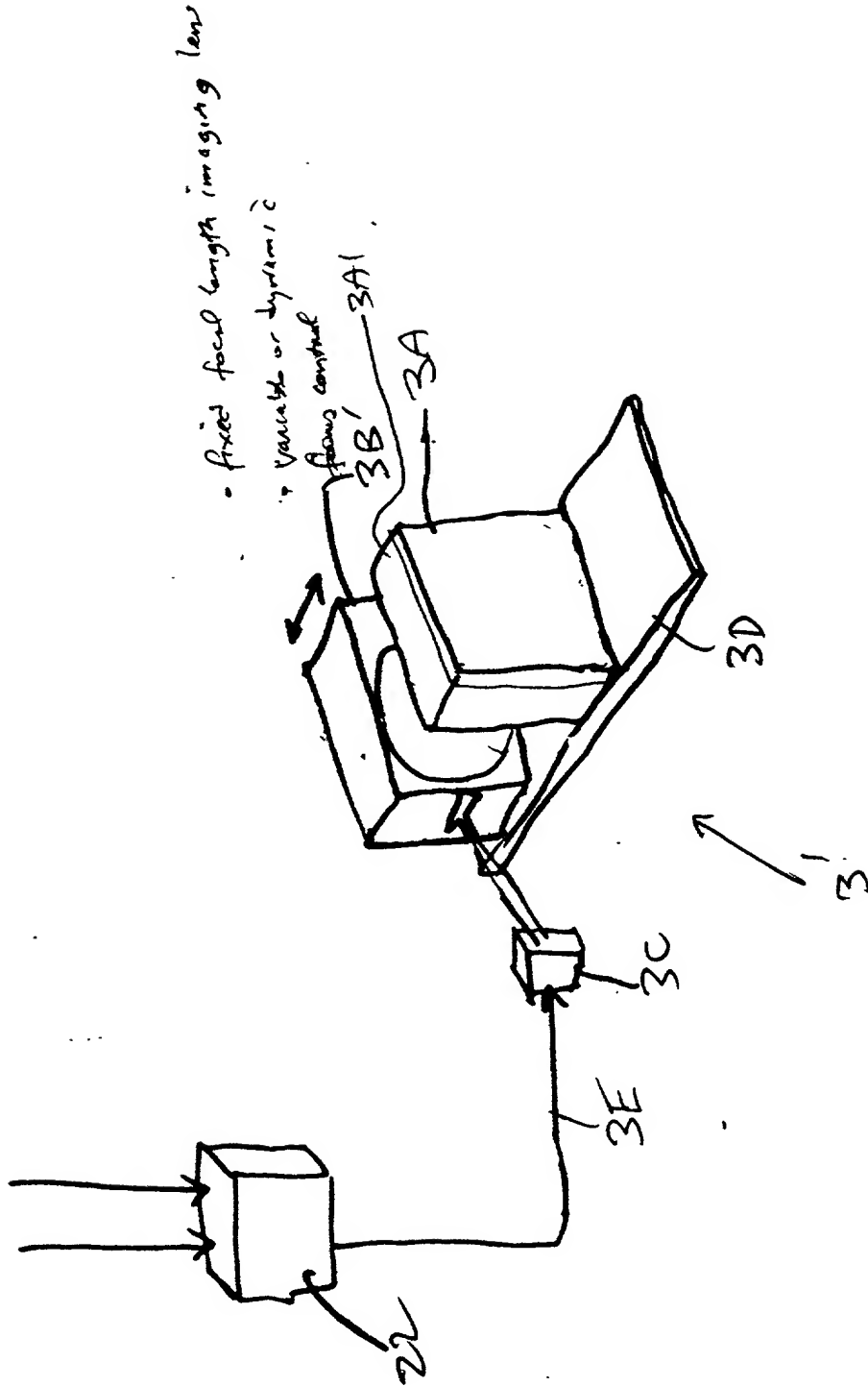
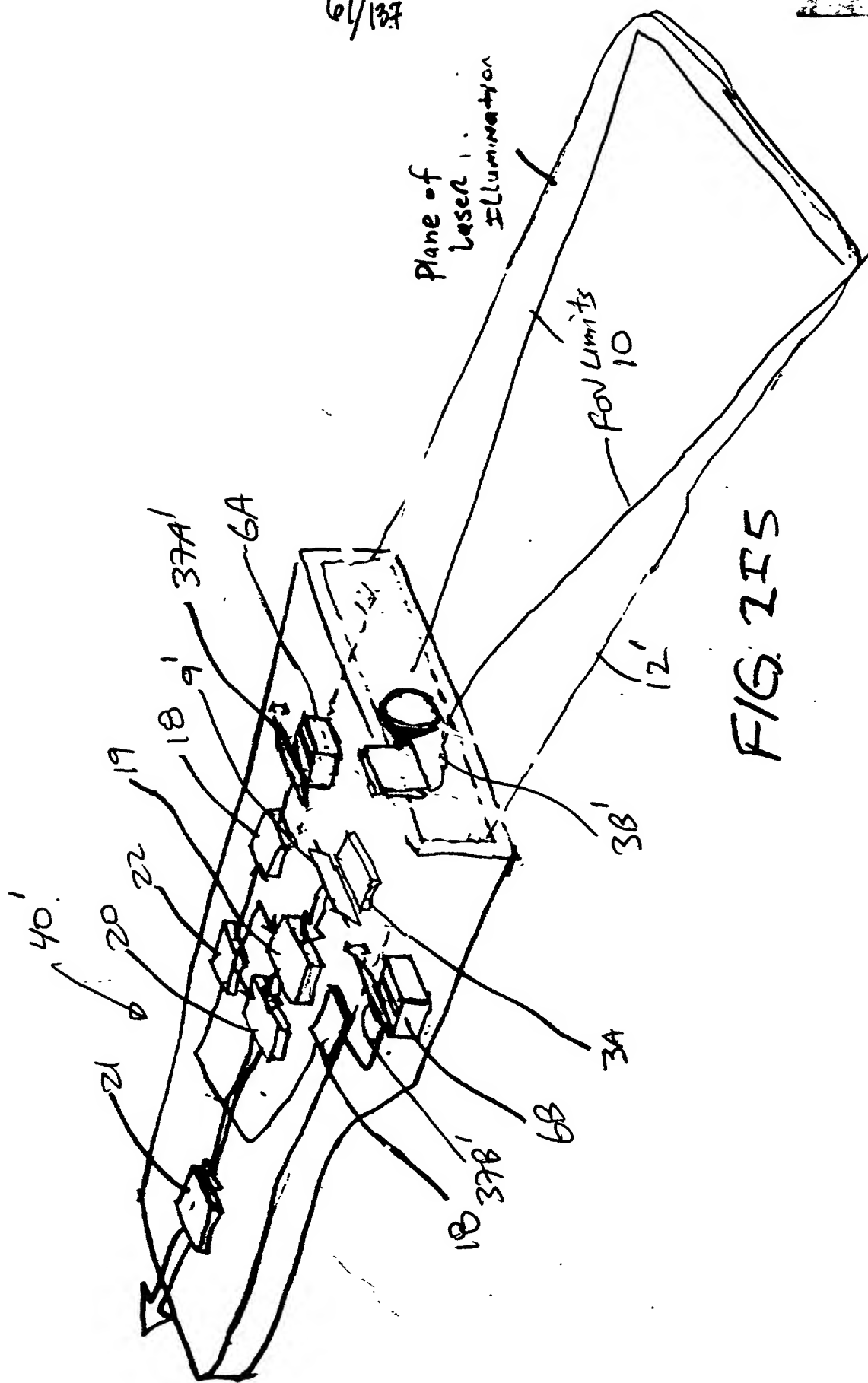


FIG. 2I4



Plane of
Laser
Illumination

FOV Limits
10

12

3B

34

68

18 378

6A

37A'

1

5

7

12.

10

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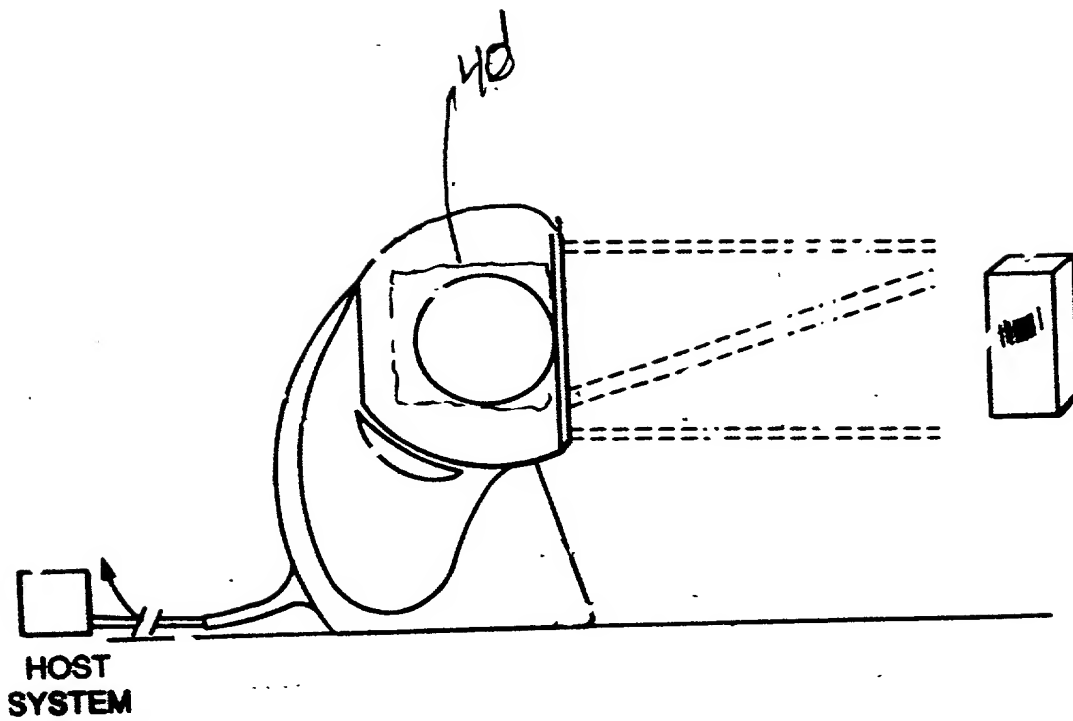


FIG. 2I6

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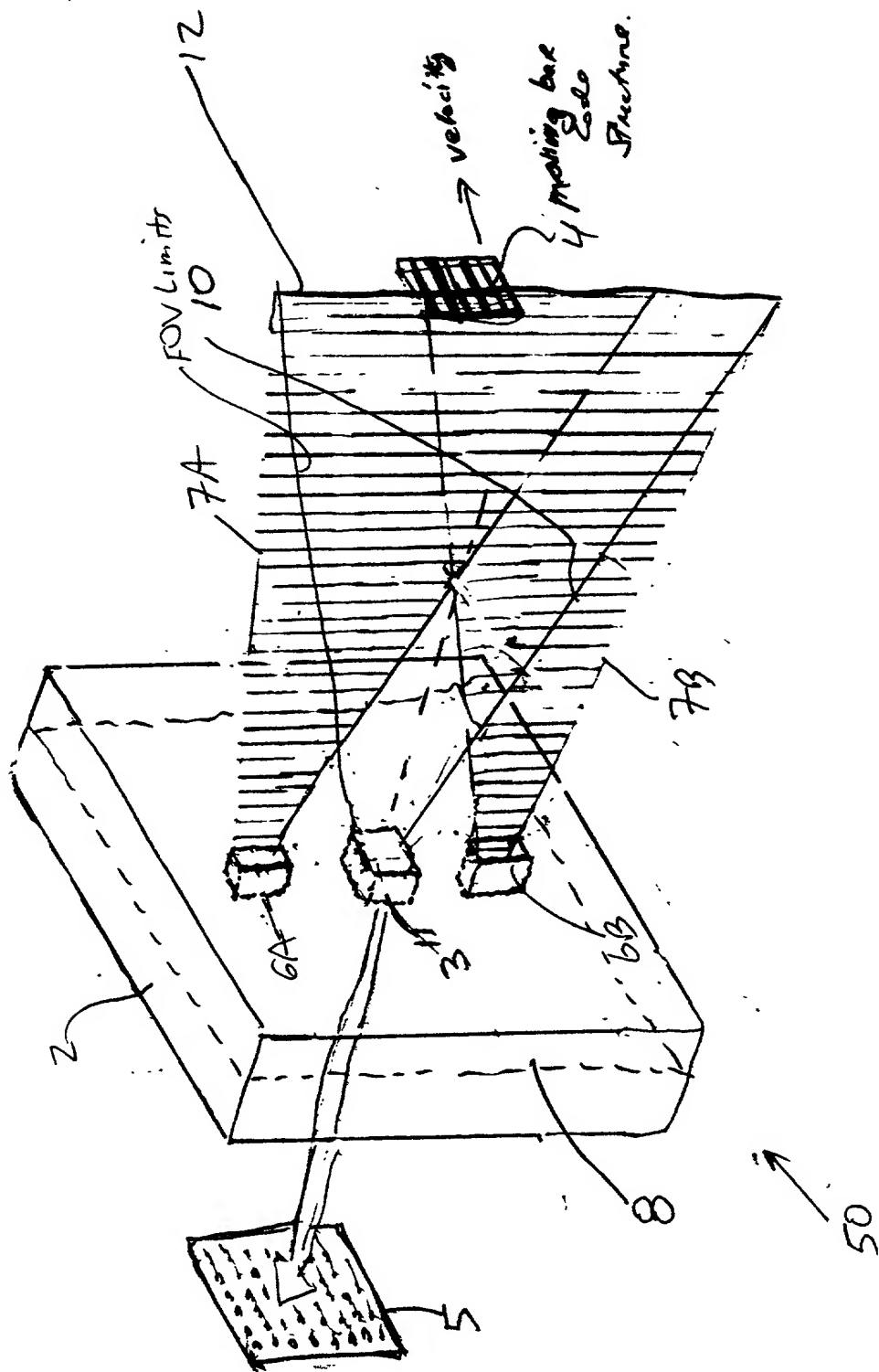


FIG 3A

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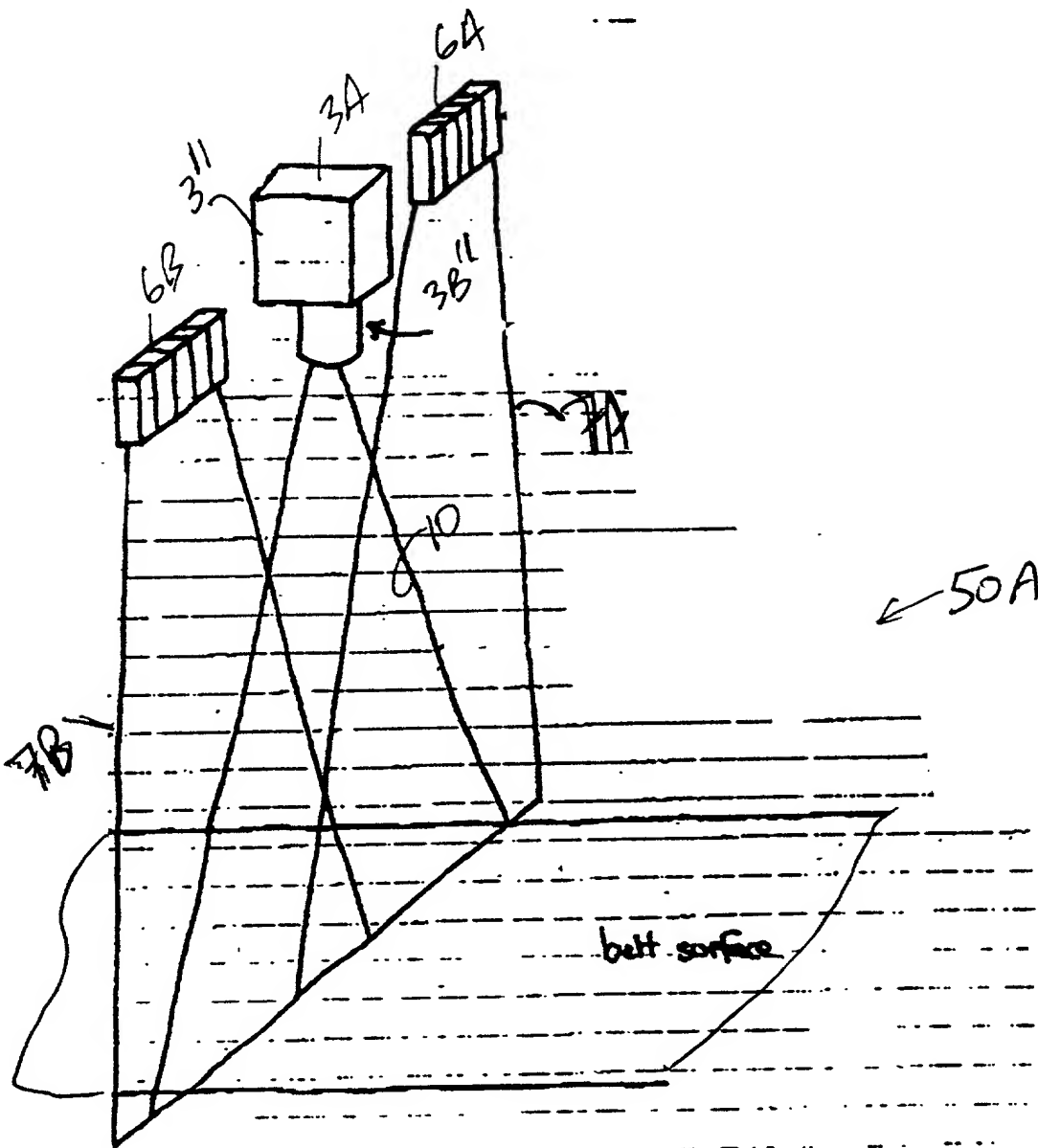
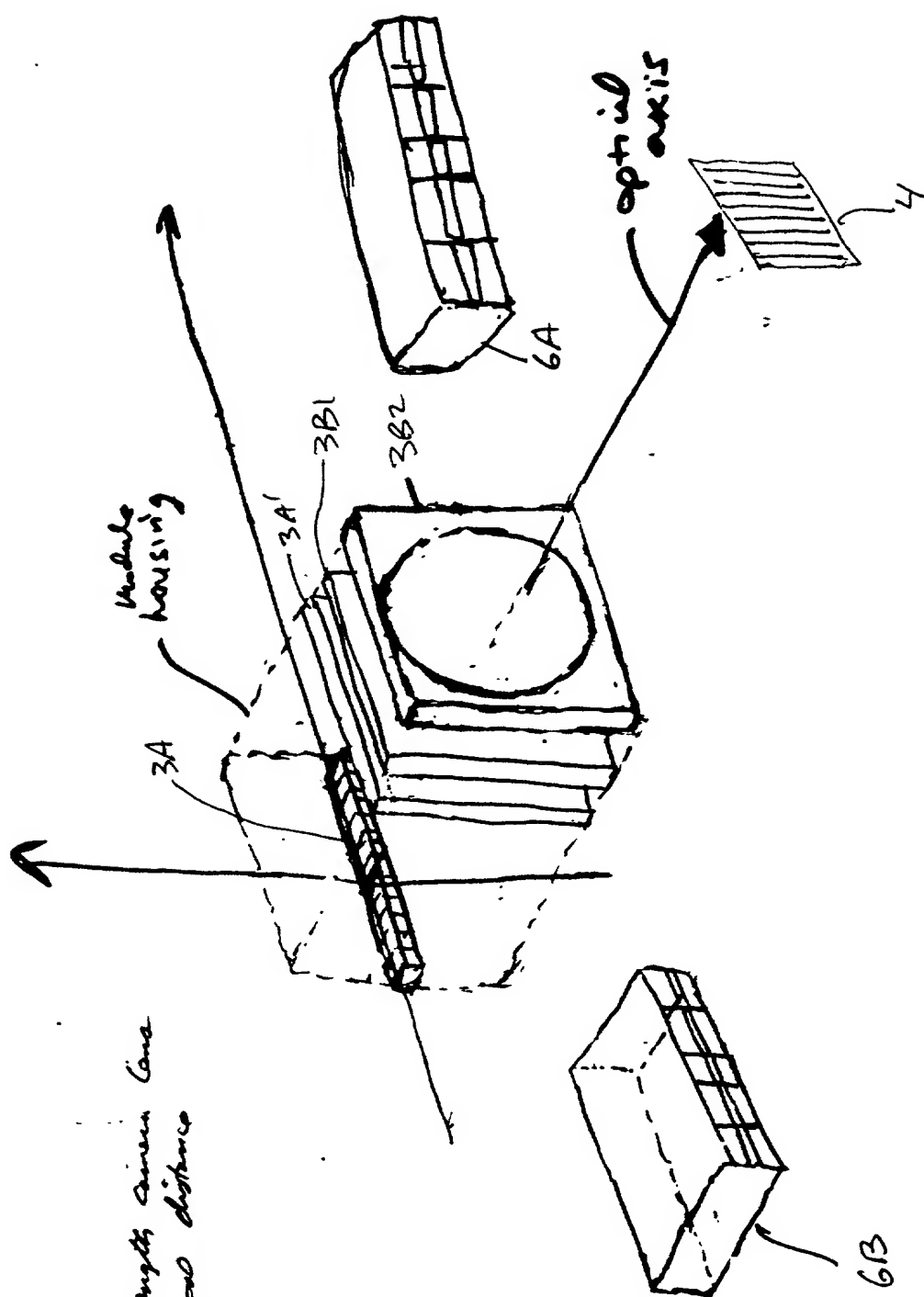


FIG. 3B1

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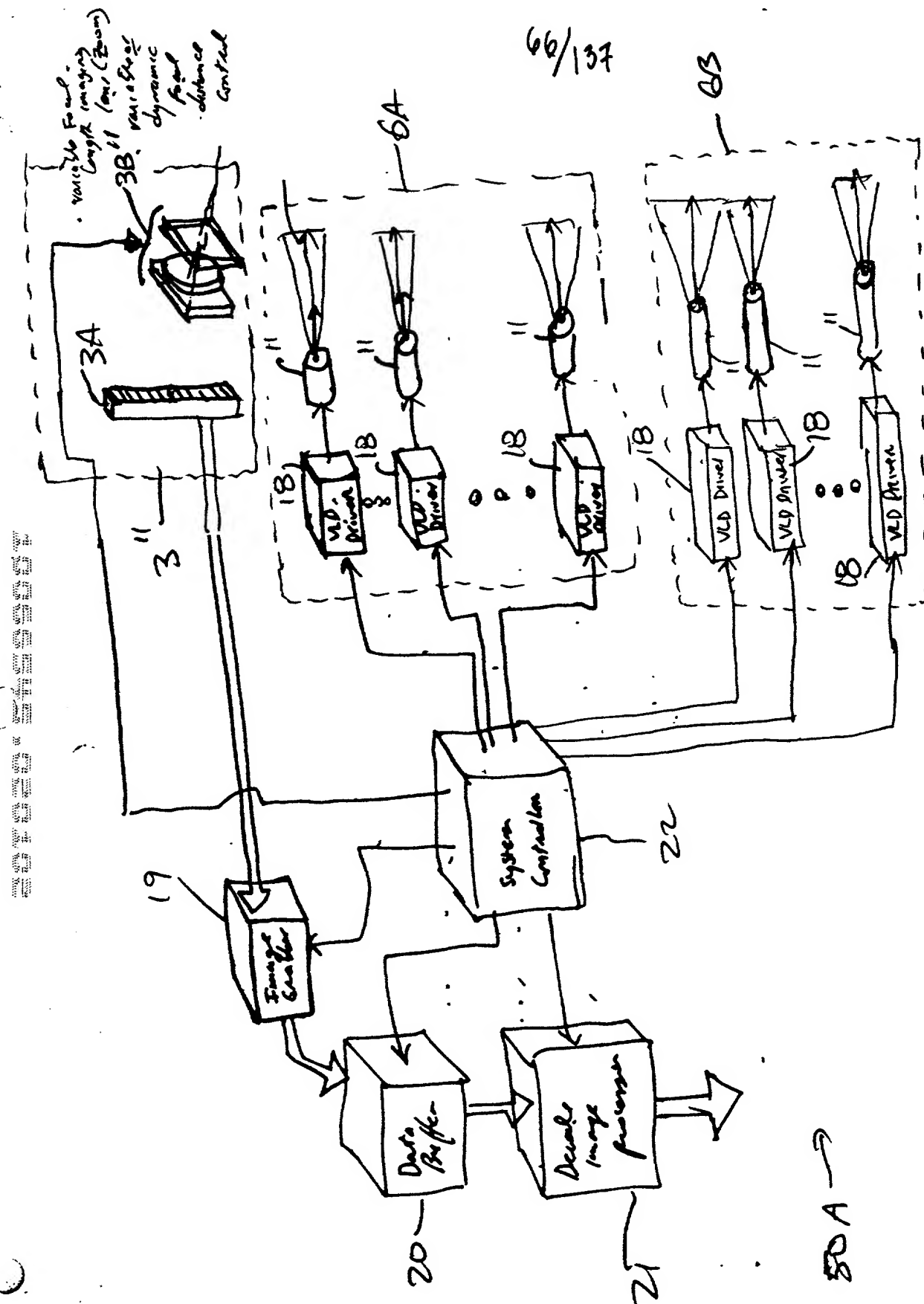


Module housing

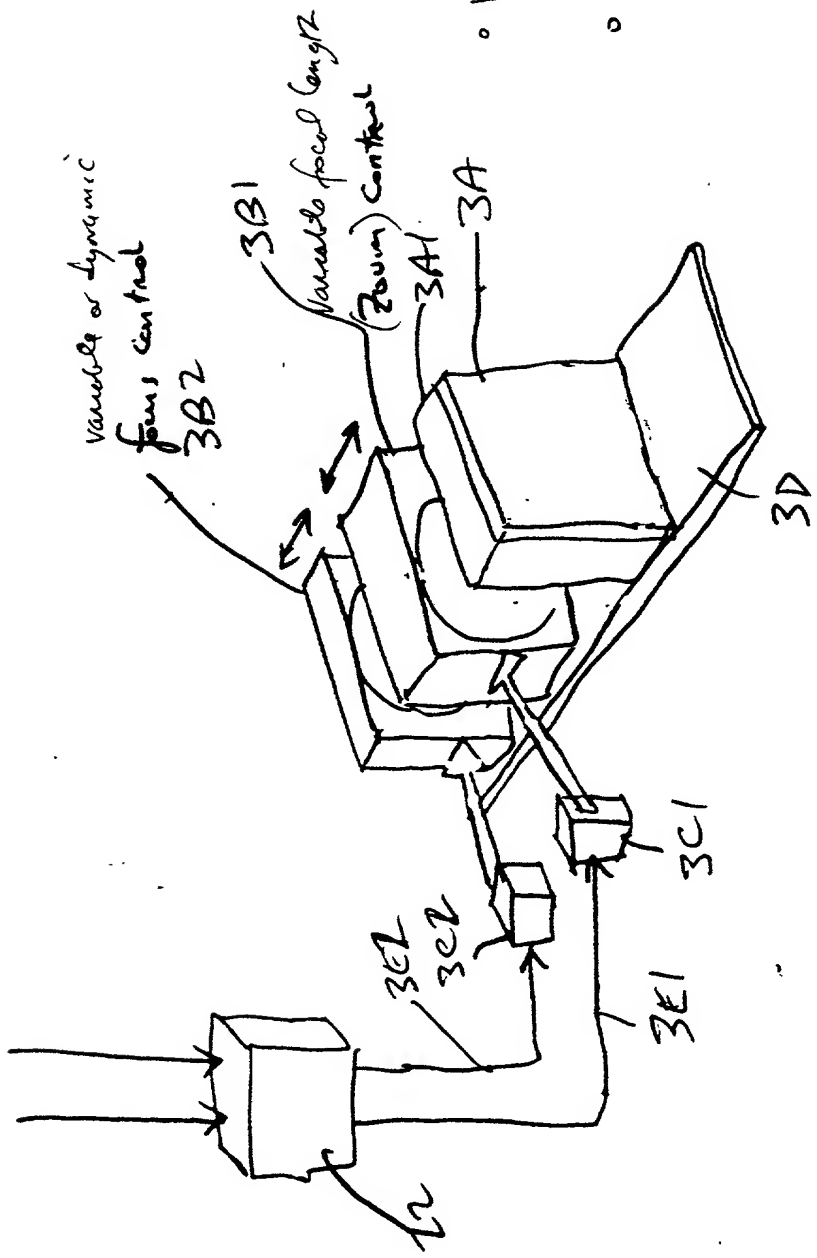
- (1) Variable focal length camera lens
- (2) Variable focus distance

FIG. 3B2

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80A



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- Variable focal length lenses lens
- Variable focal distance

FIG. 3CZ

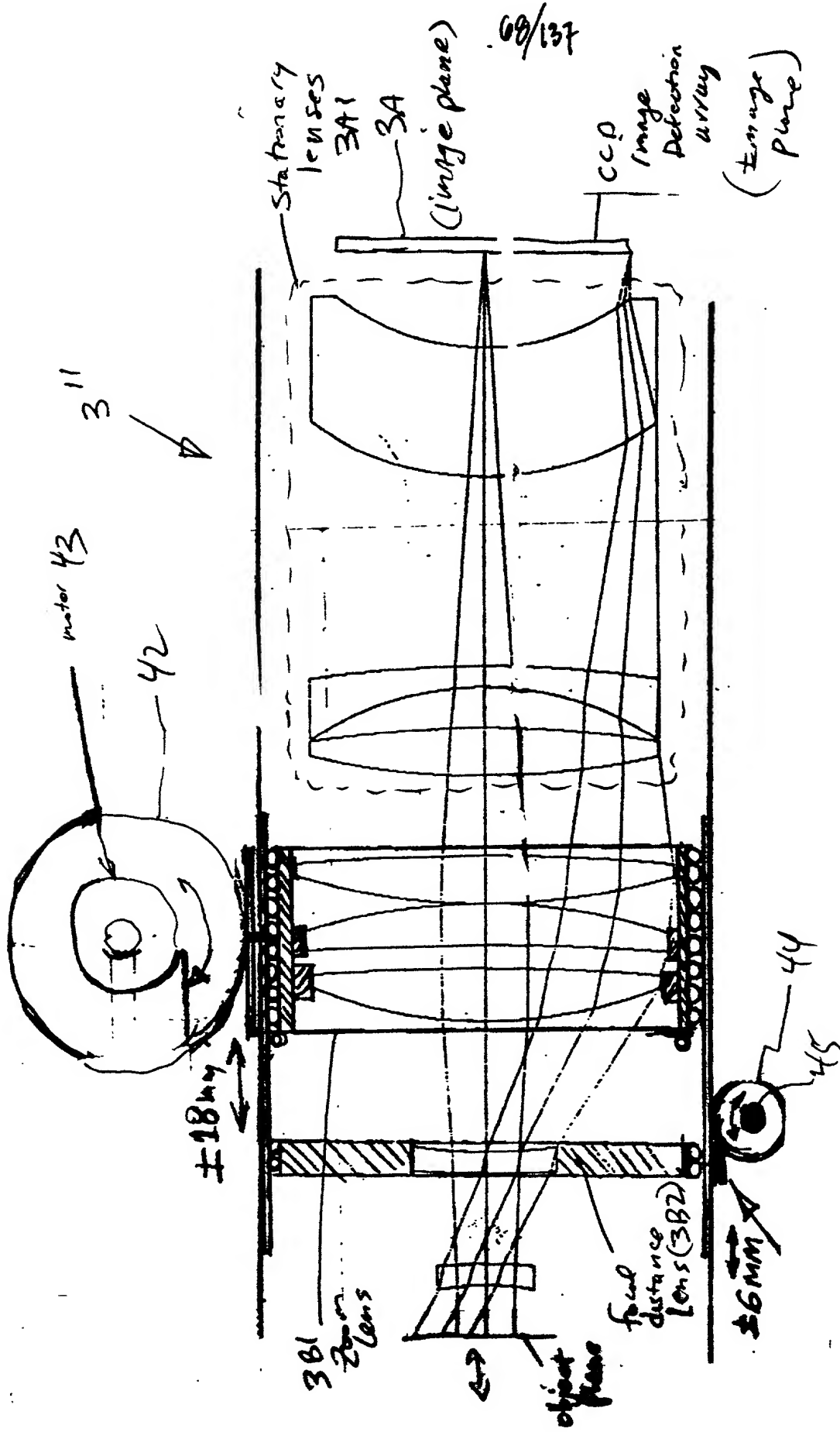
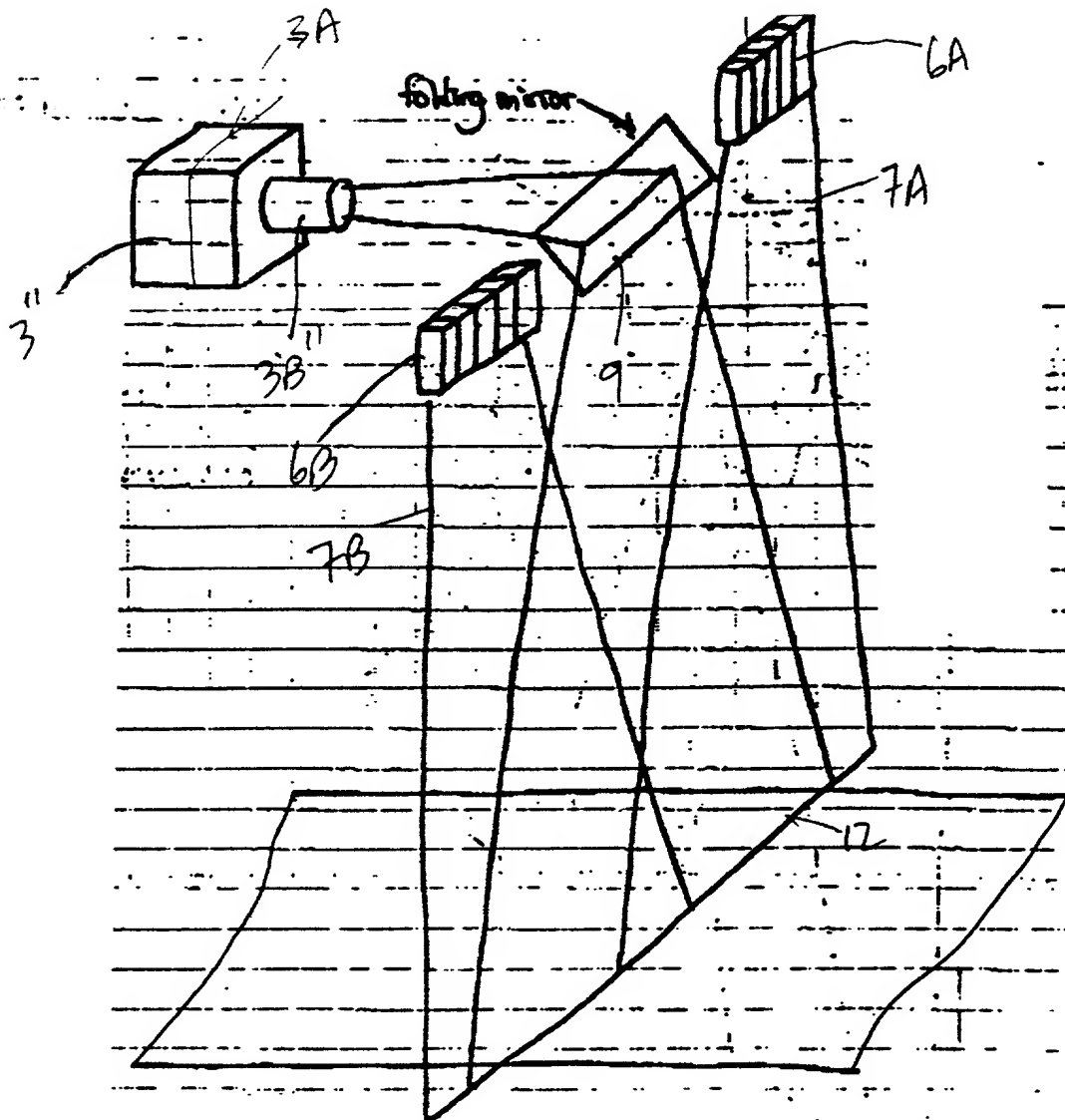


FIG. 3D

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FIG 3E1

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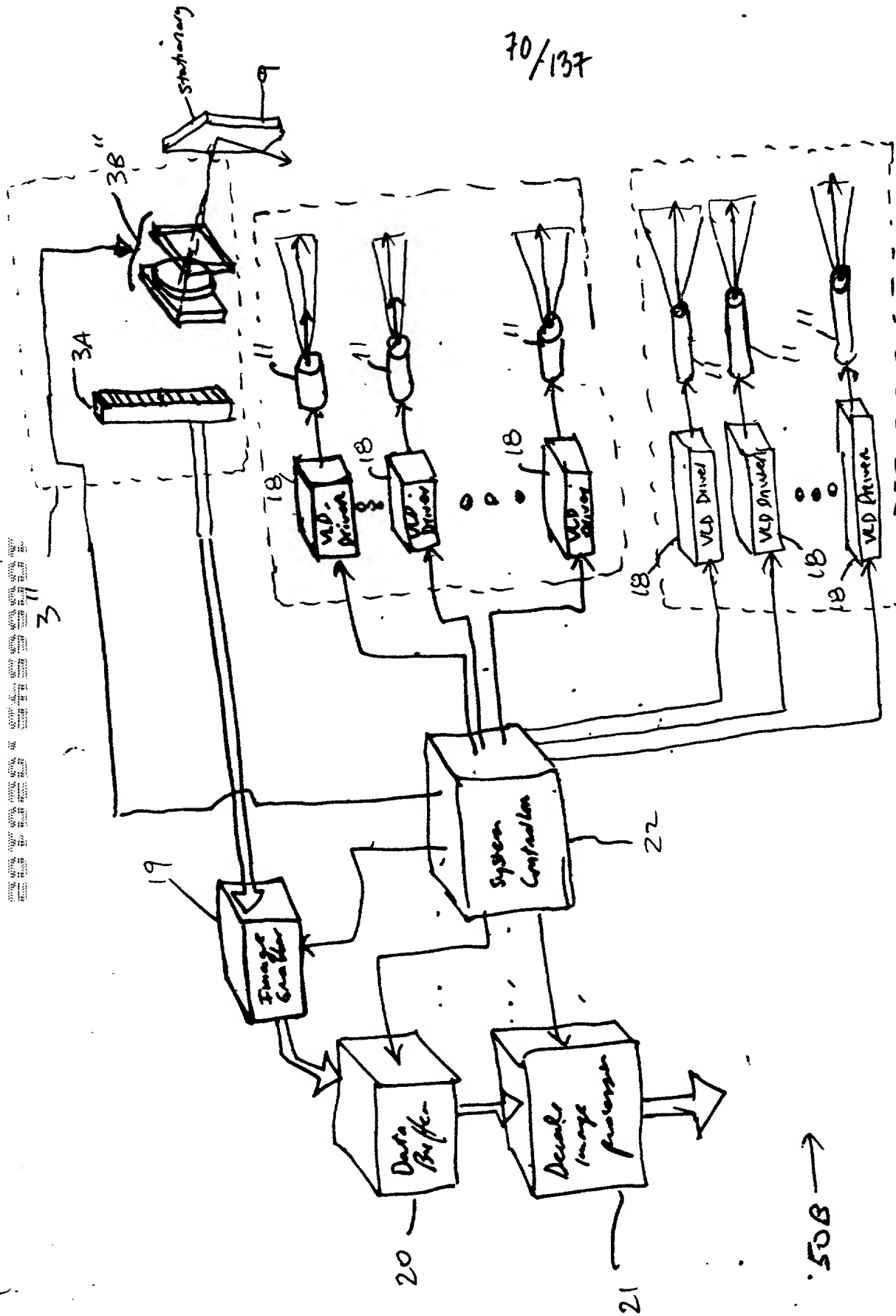


FIG. 3E2

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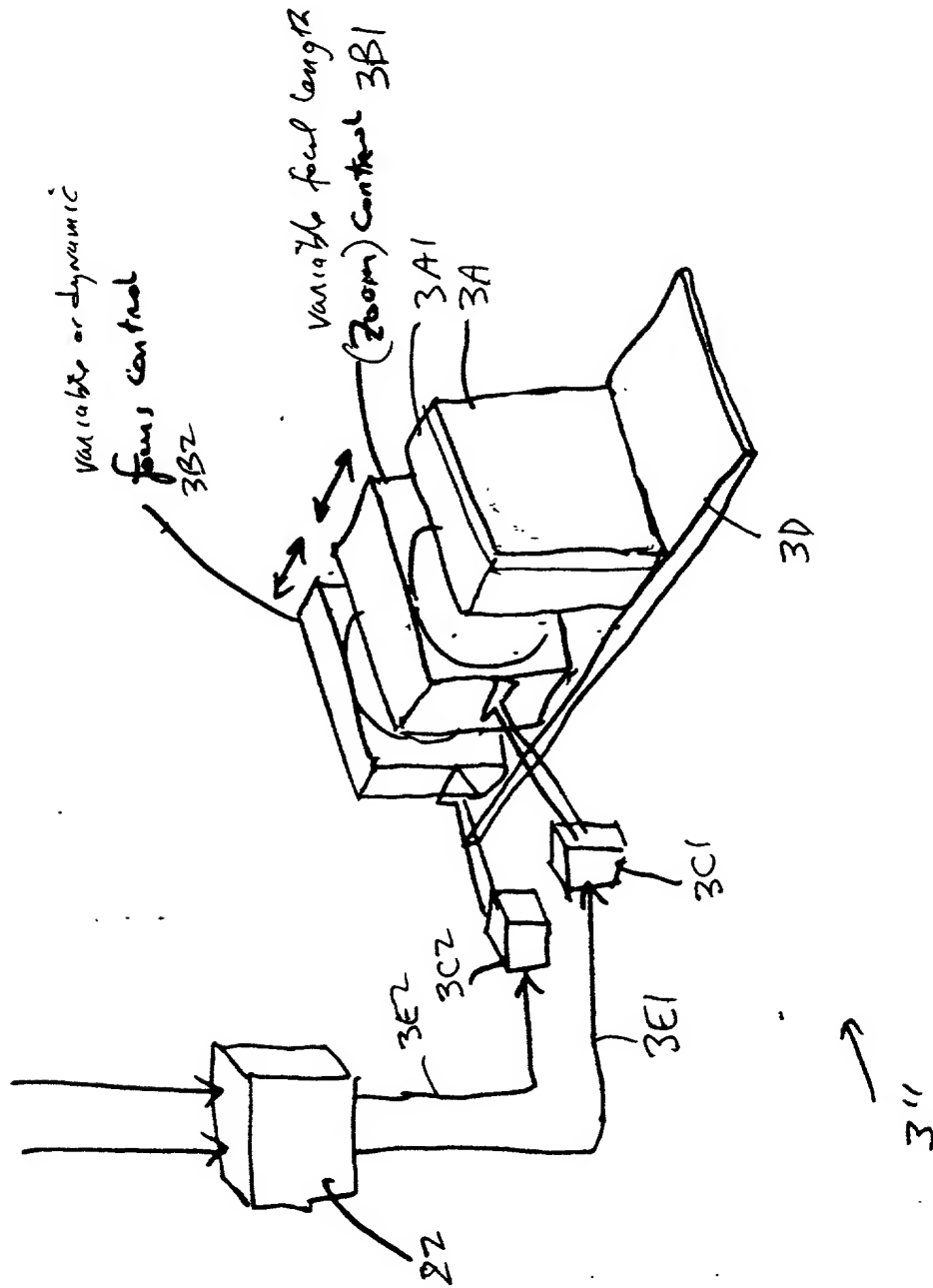


FIG. 3E3

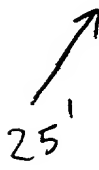
[illegible]

FIG. 3E4

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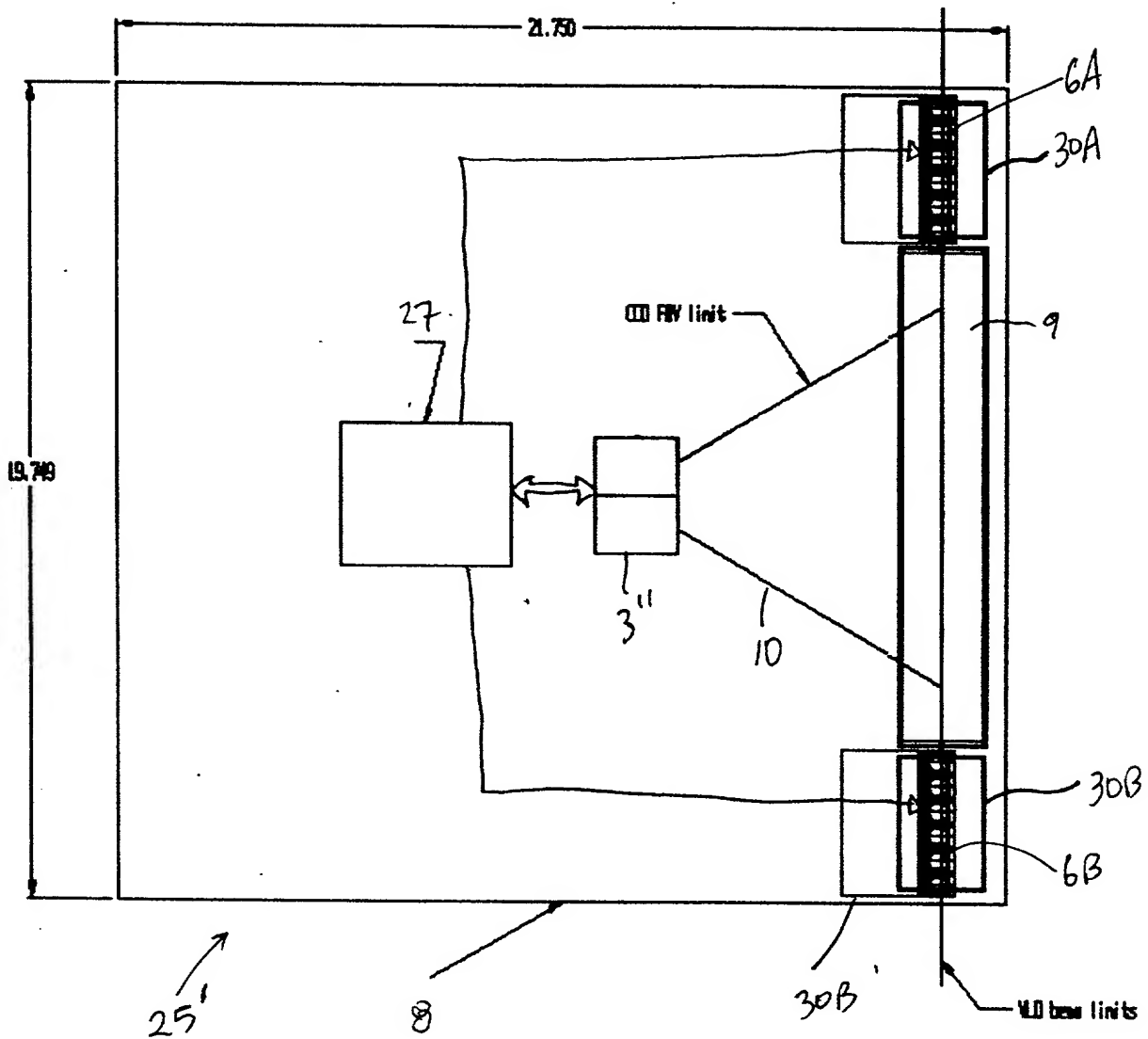


FIG. 3E5

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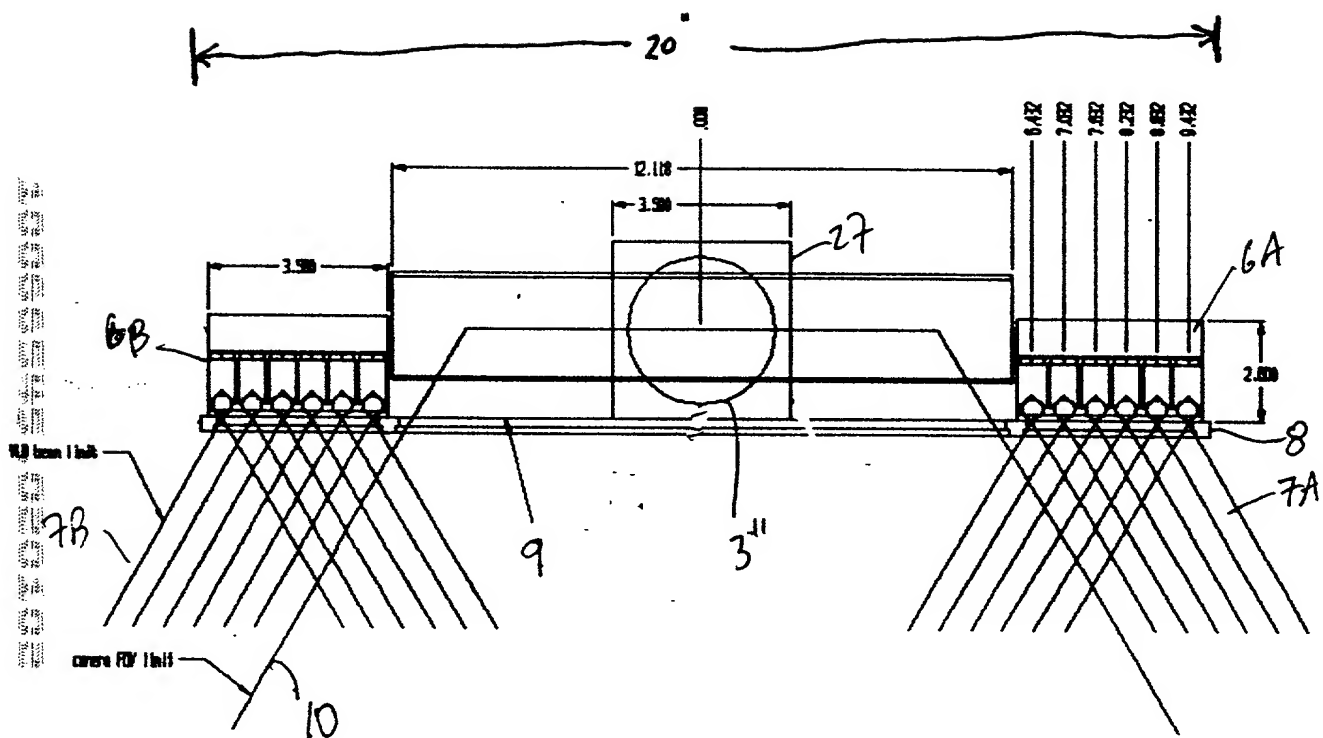


FIG. 3E6

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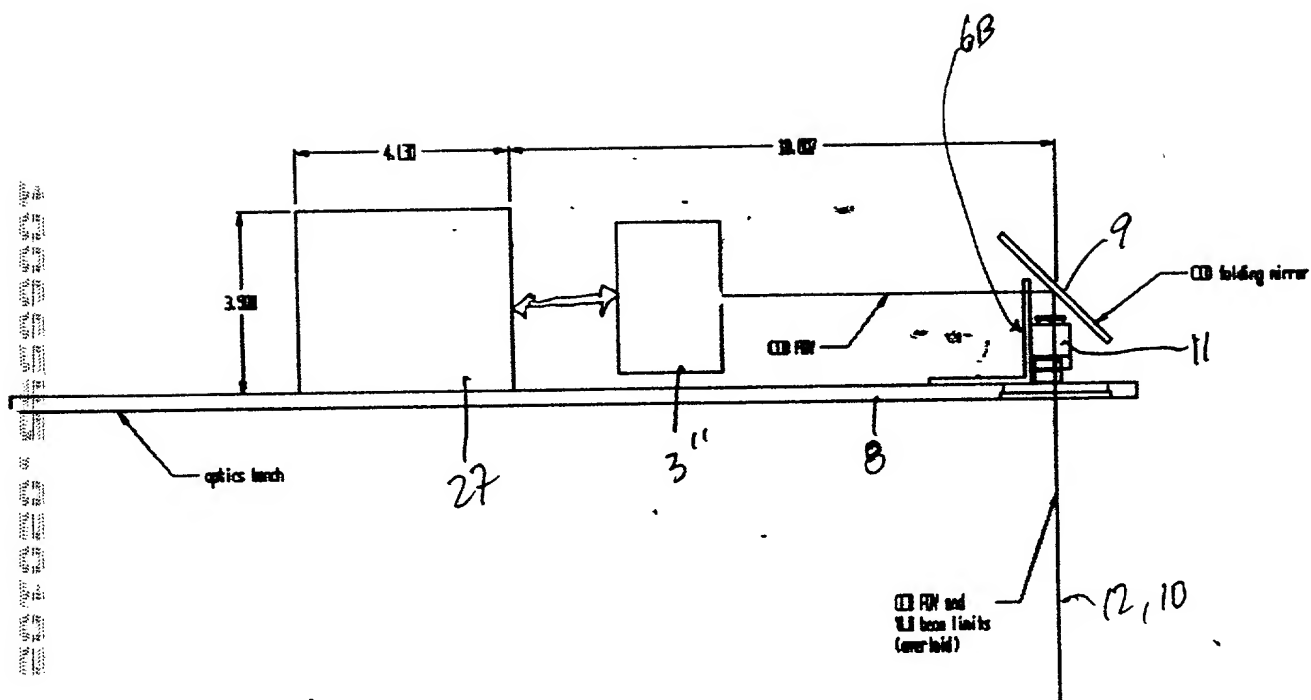


FIG. 3E7

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*variable FOV

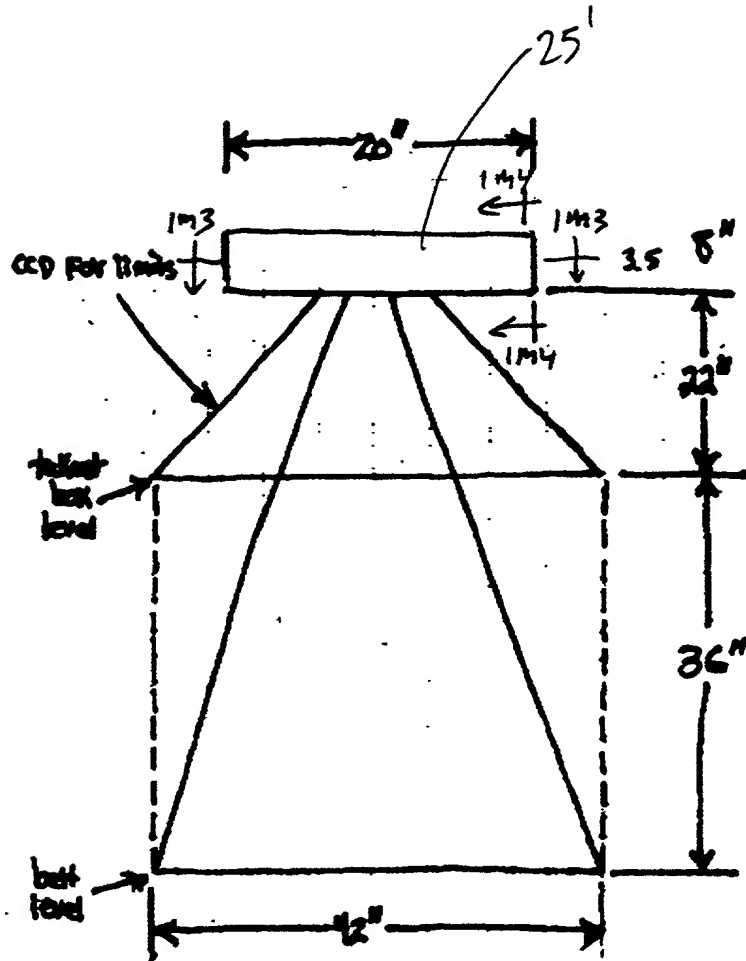


FIG. 3E8

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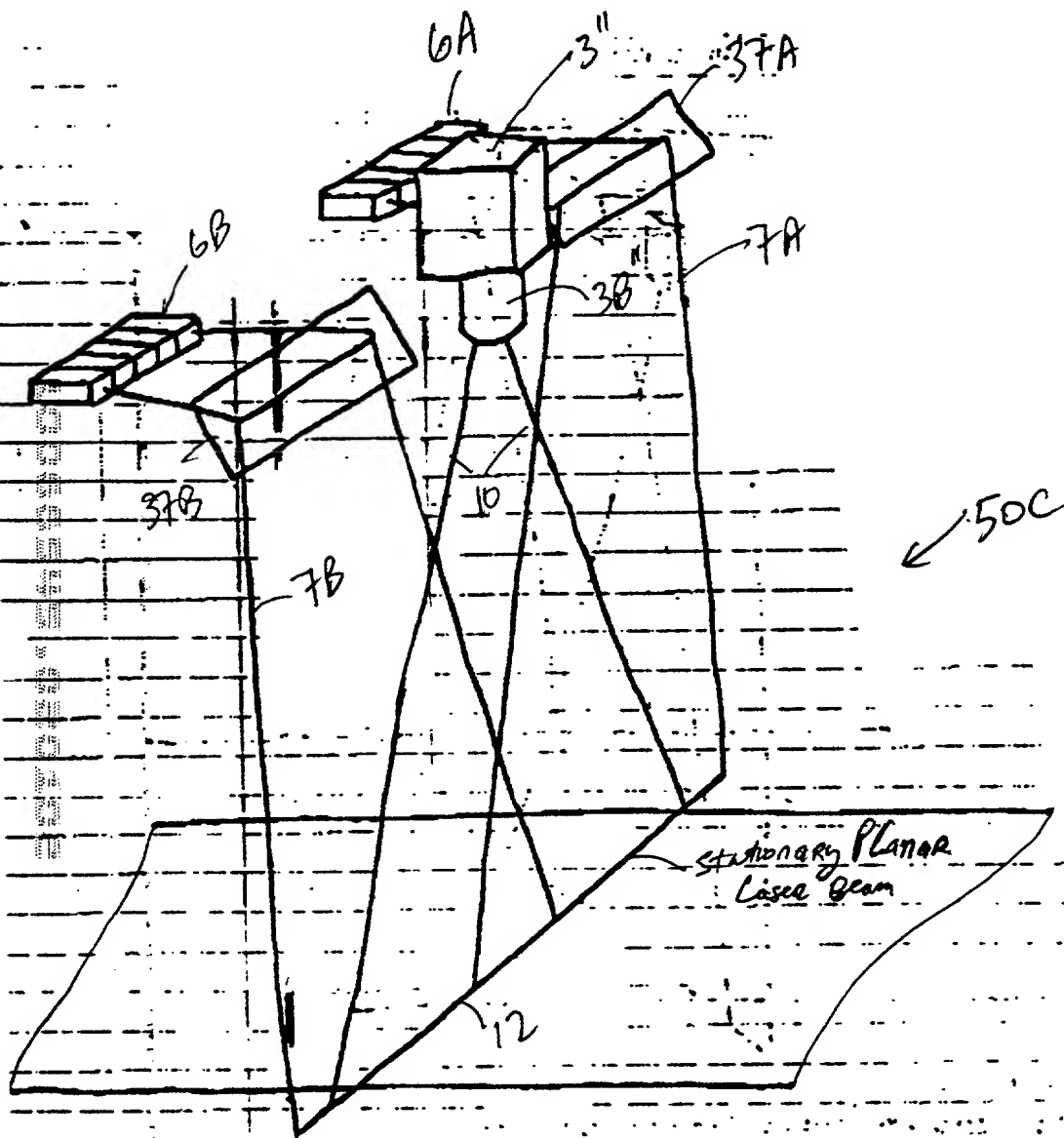


FIG 3F1

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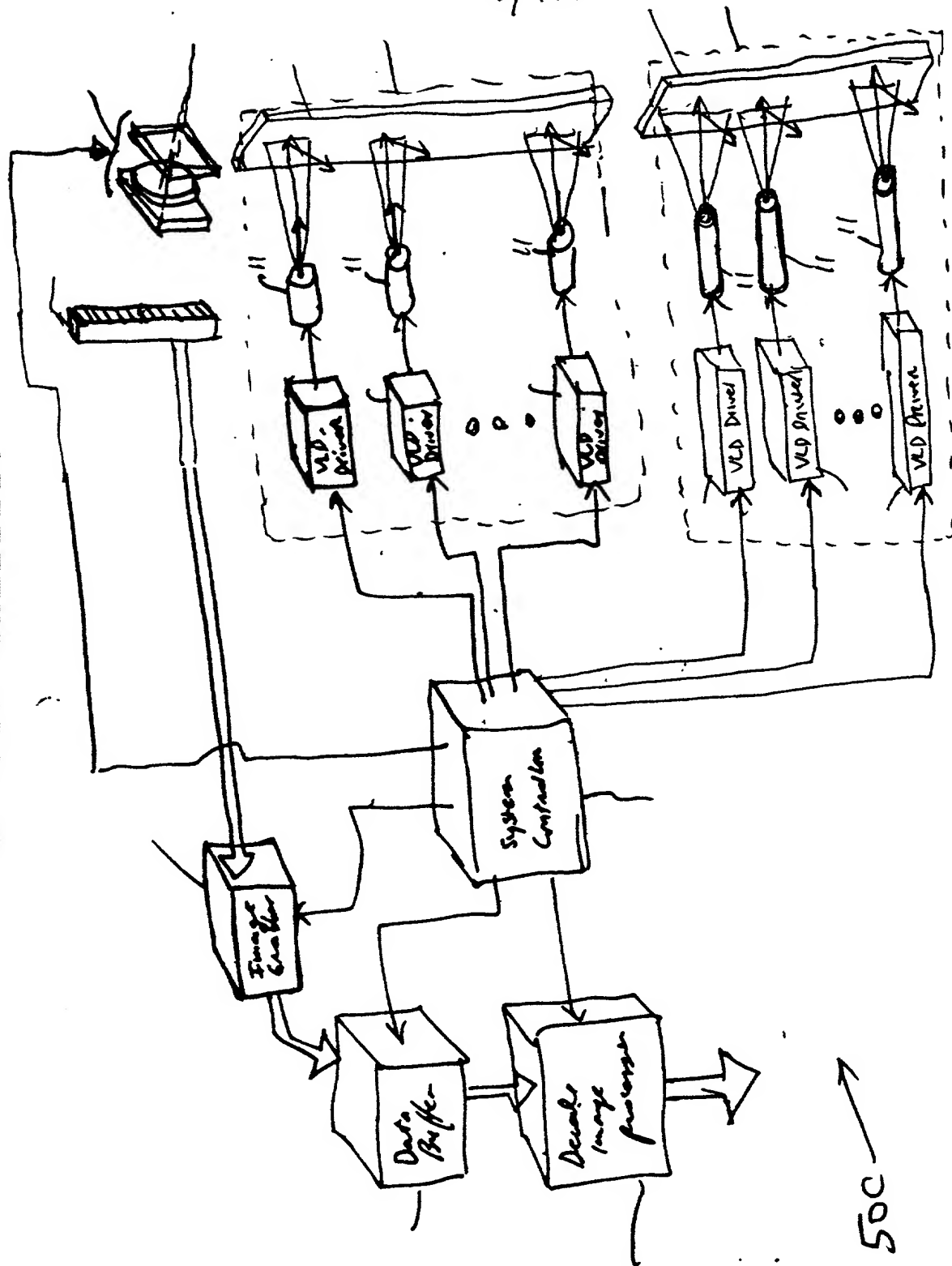


FIG. 3F2

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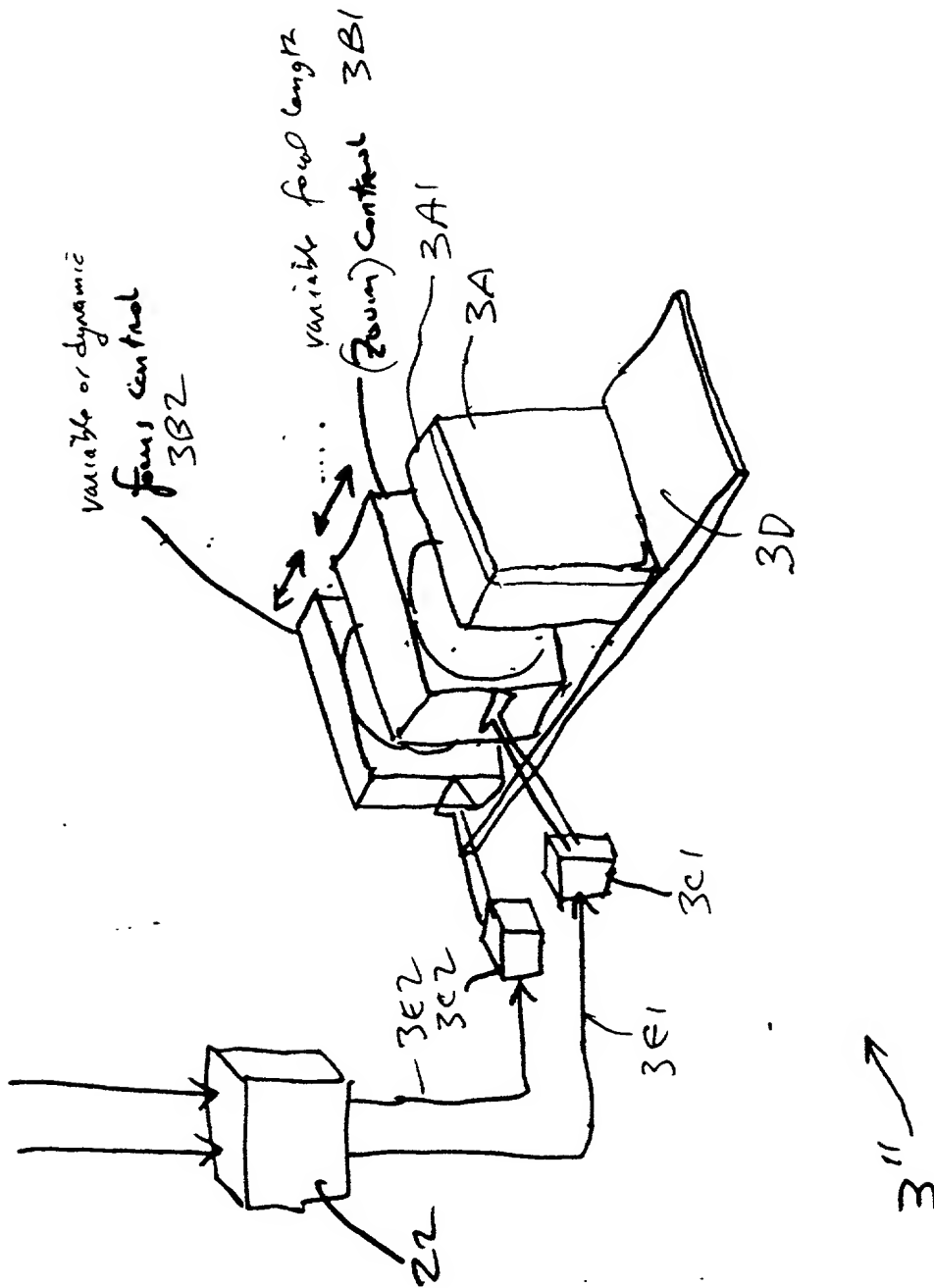


FIG. 3F3

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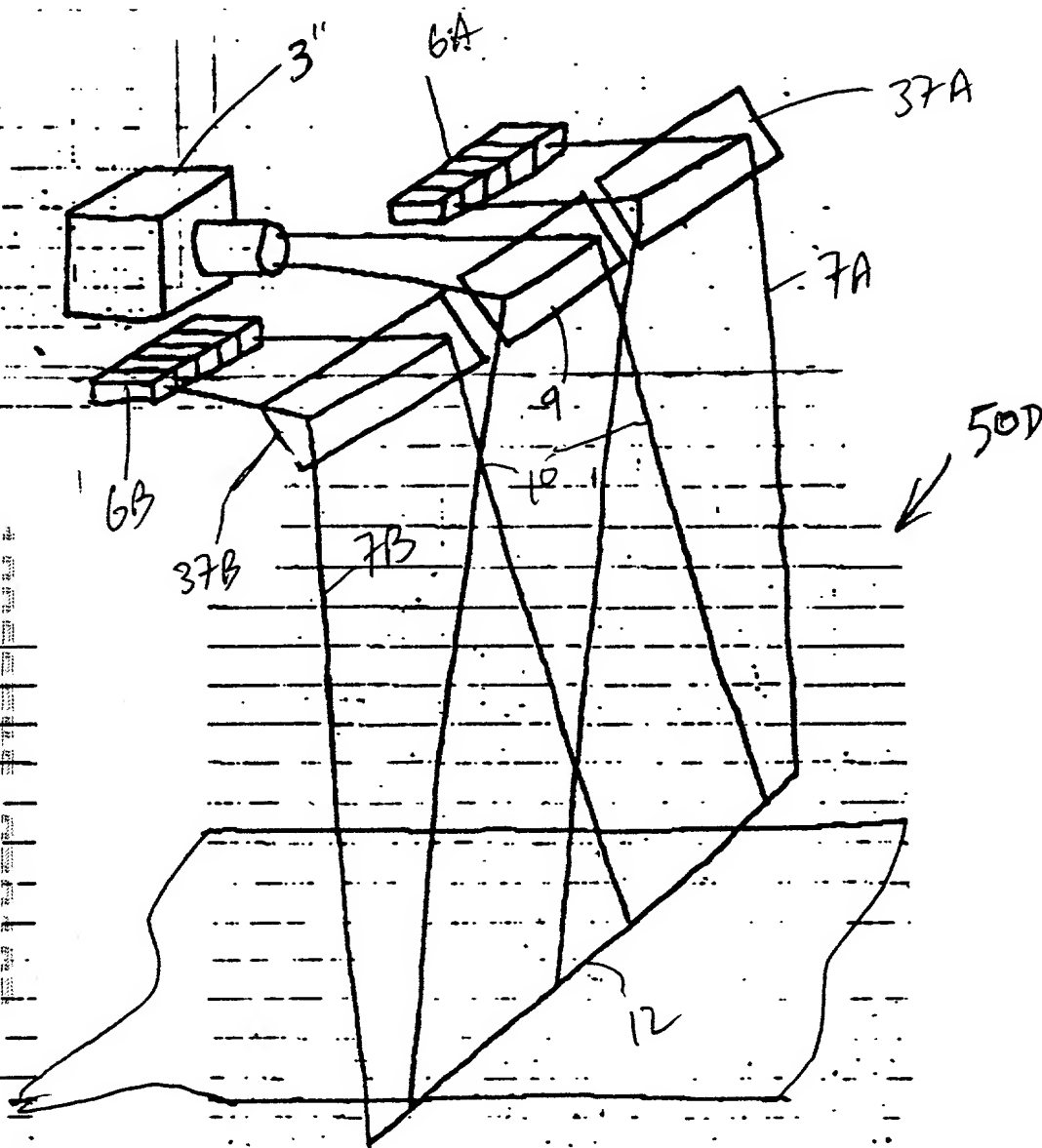


FIG. 3G1

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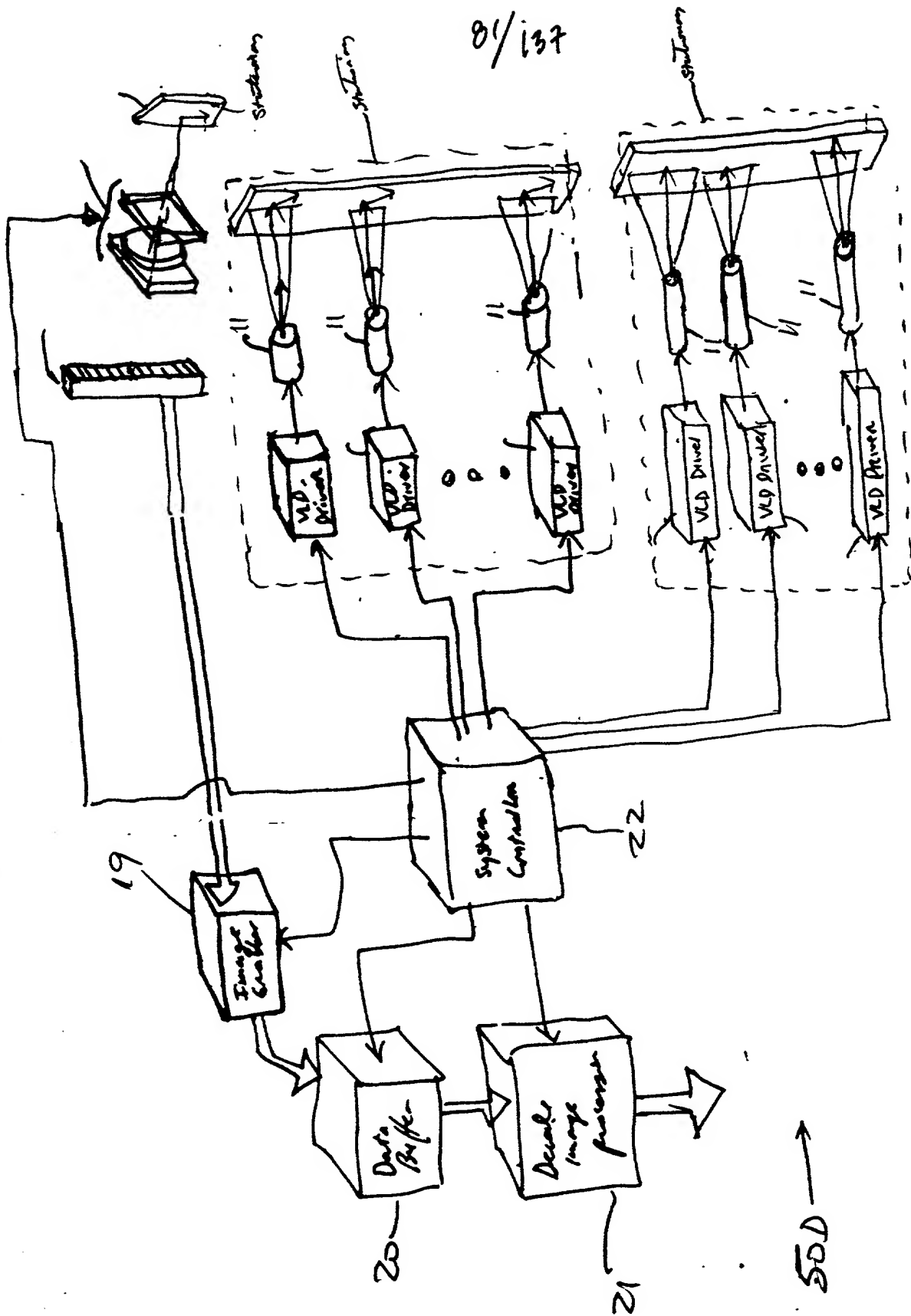


FIG. 392

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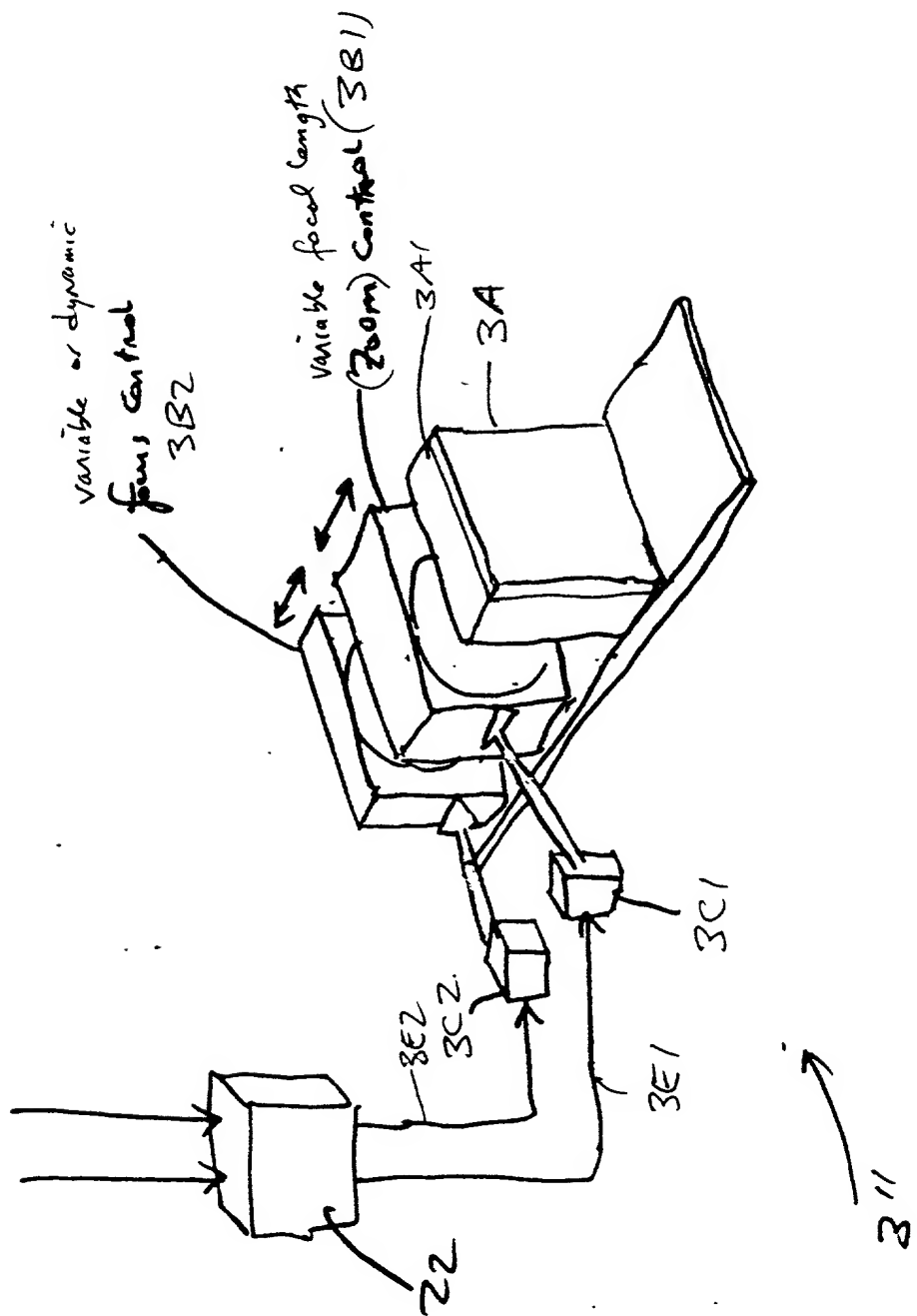


FIG. 3G3

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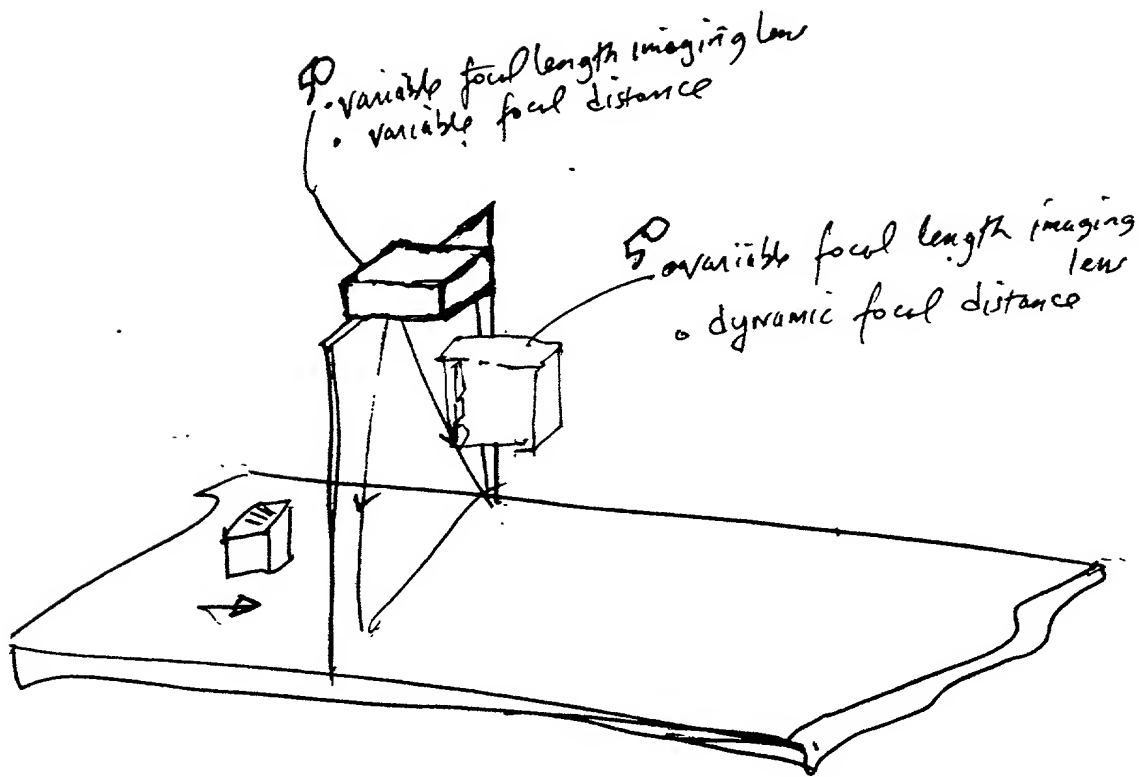


FIG. 3H

2025 4 23 10 59 AM

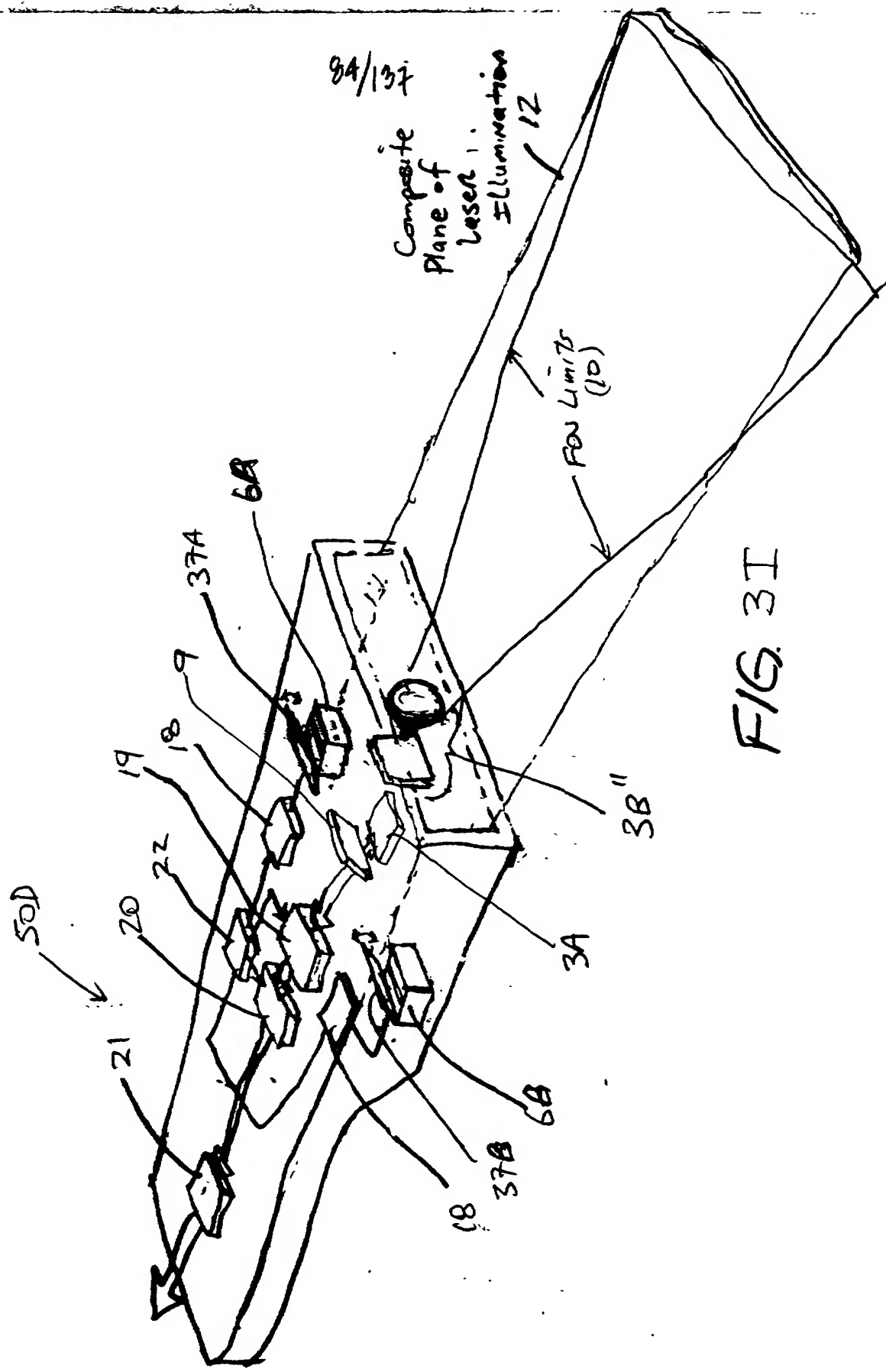


FIG. 3I

FIG. 3J1

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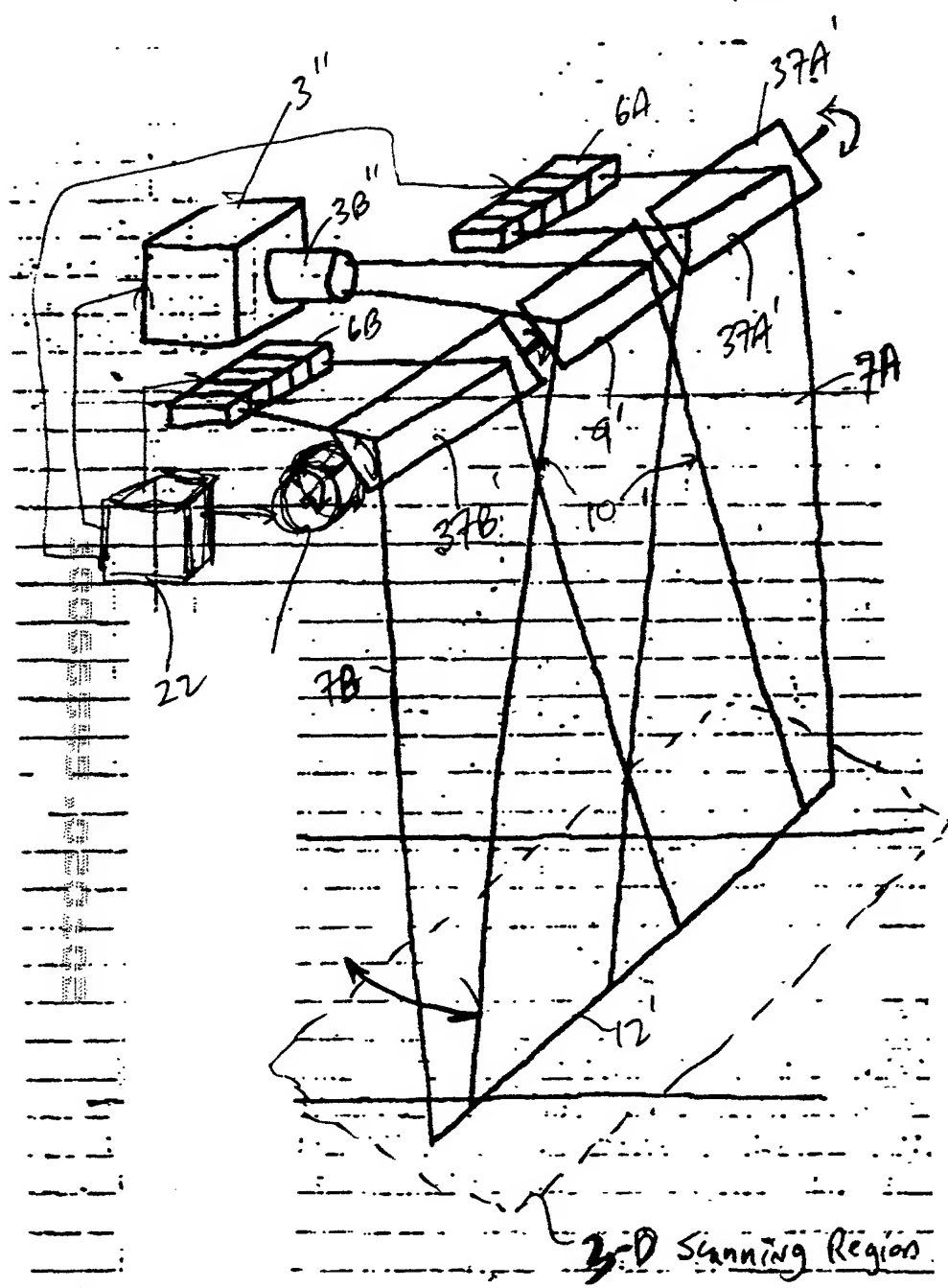


FIG 3J2

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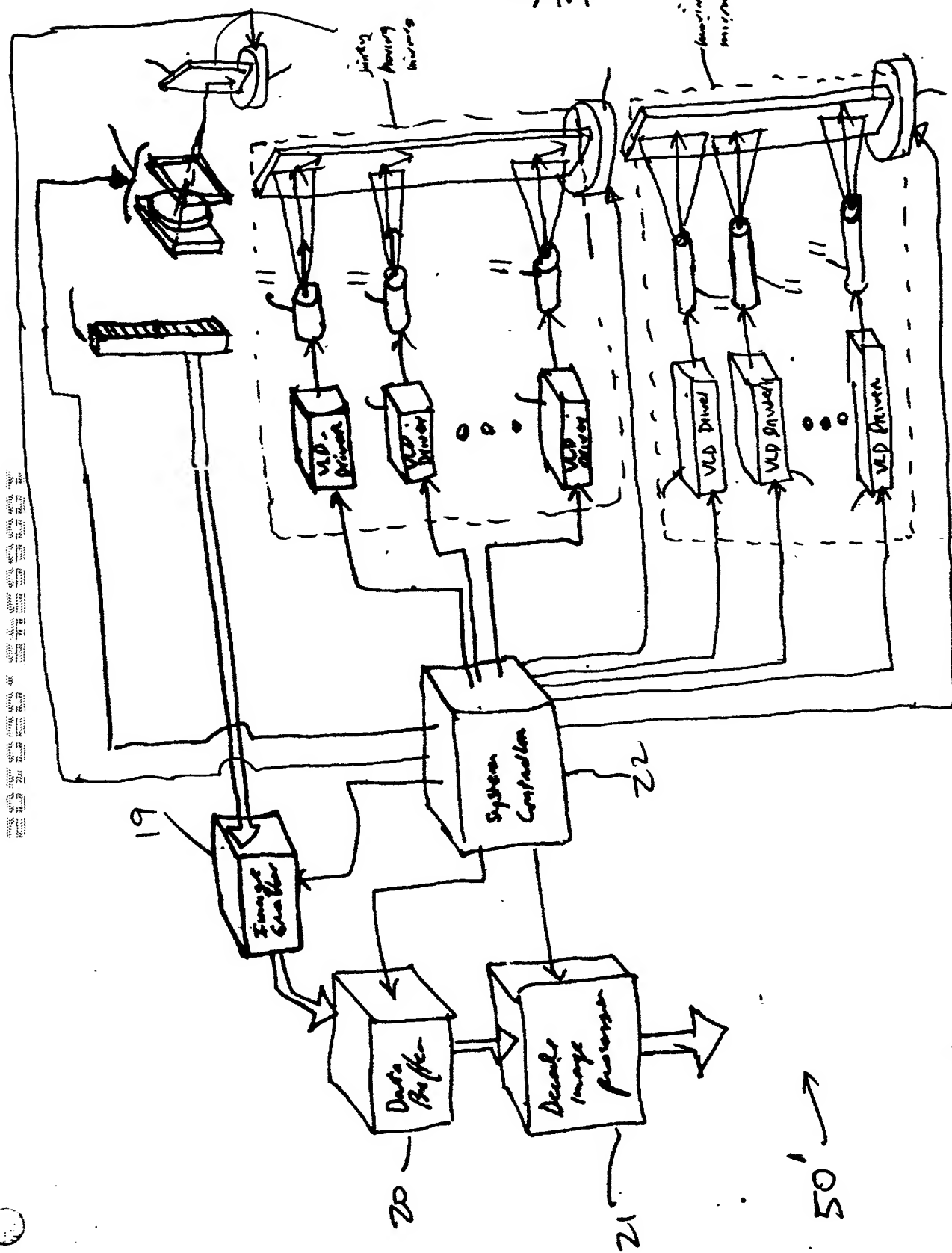


FIG. 353

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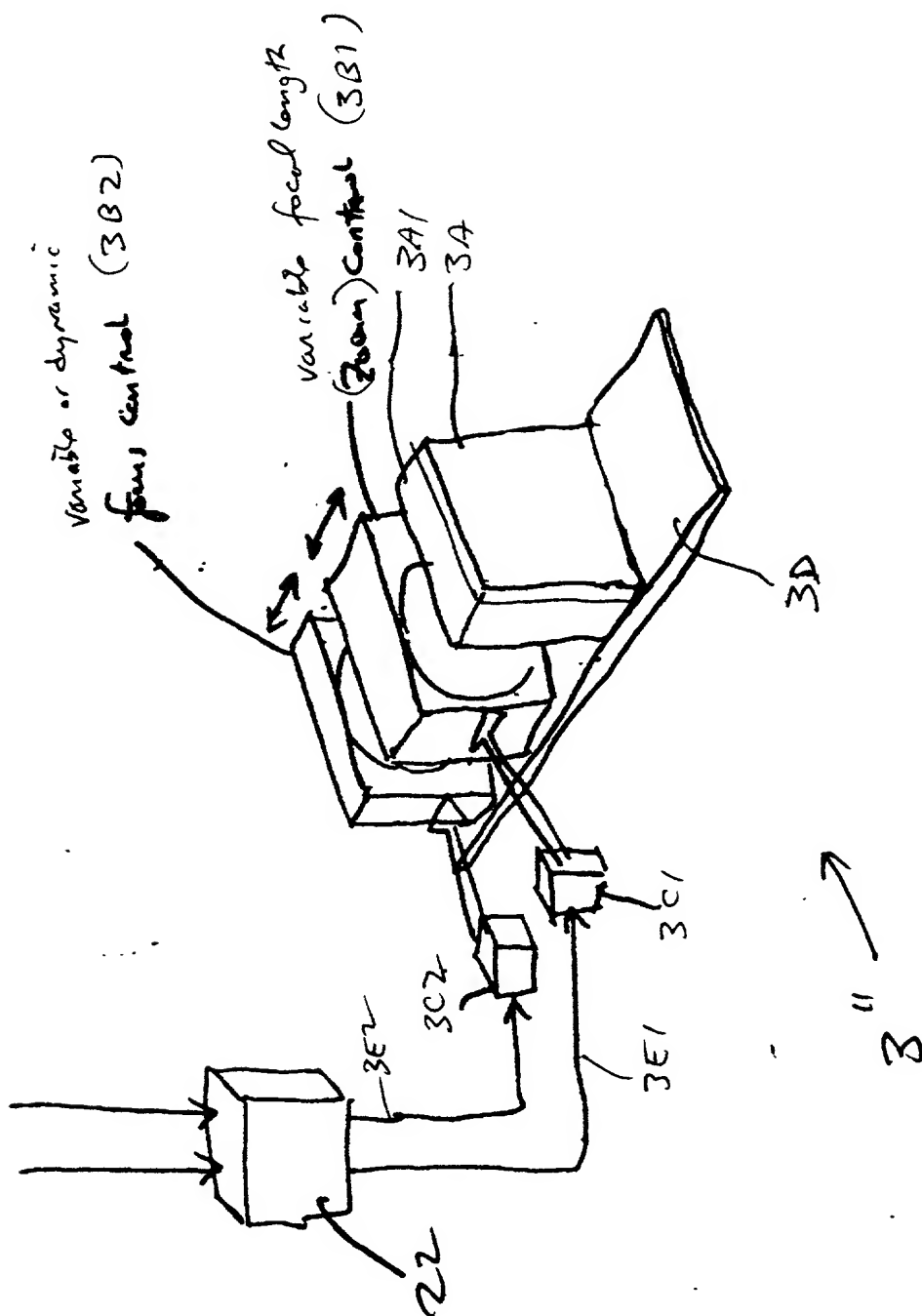


Fig. 354

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2-18081-2

Done: f

illumination

12

For Limits (10)

FIG. 35

Applications:-

- hand-held scanner
- presentation scanner

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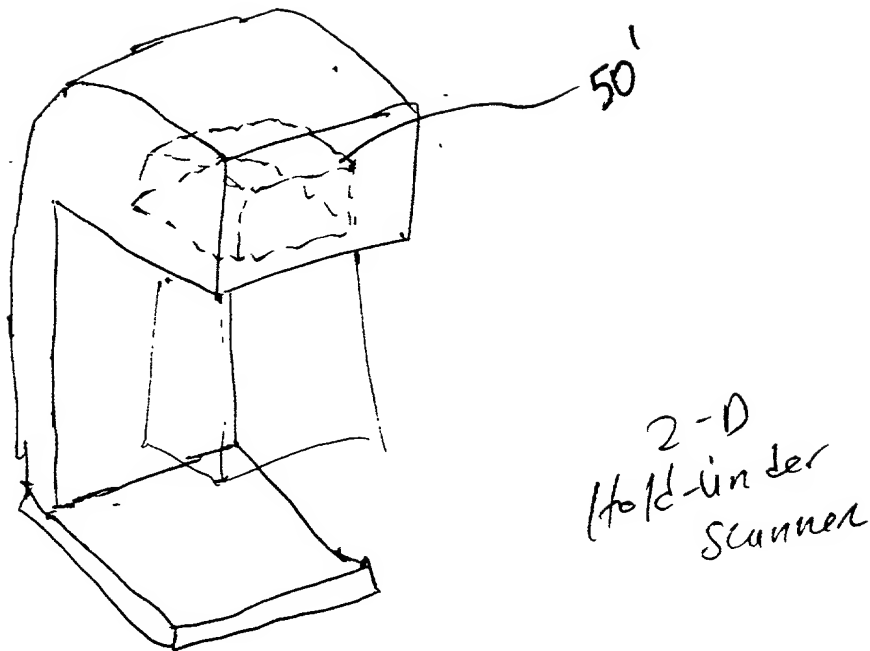
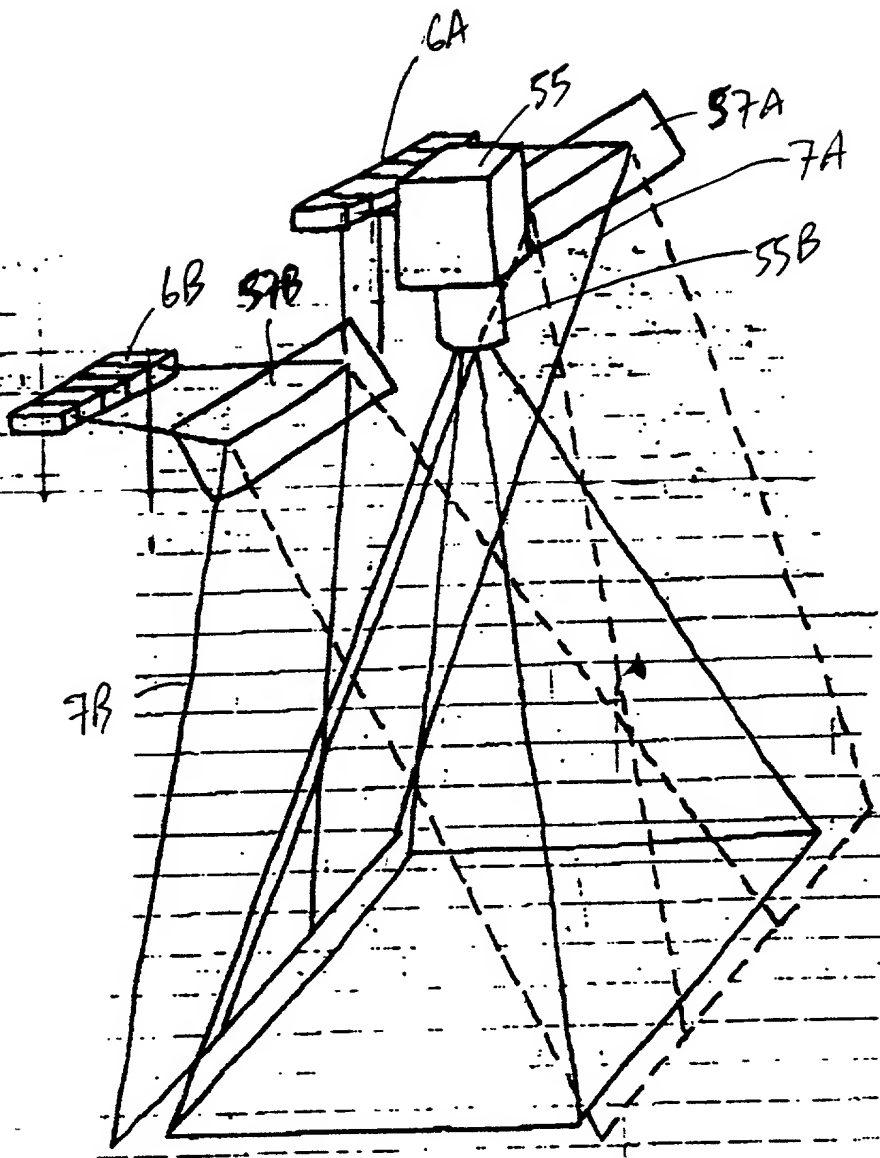


FIG. 3J5

FIG 4A

60-A

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60A

FIG. 4B1

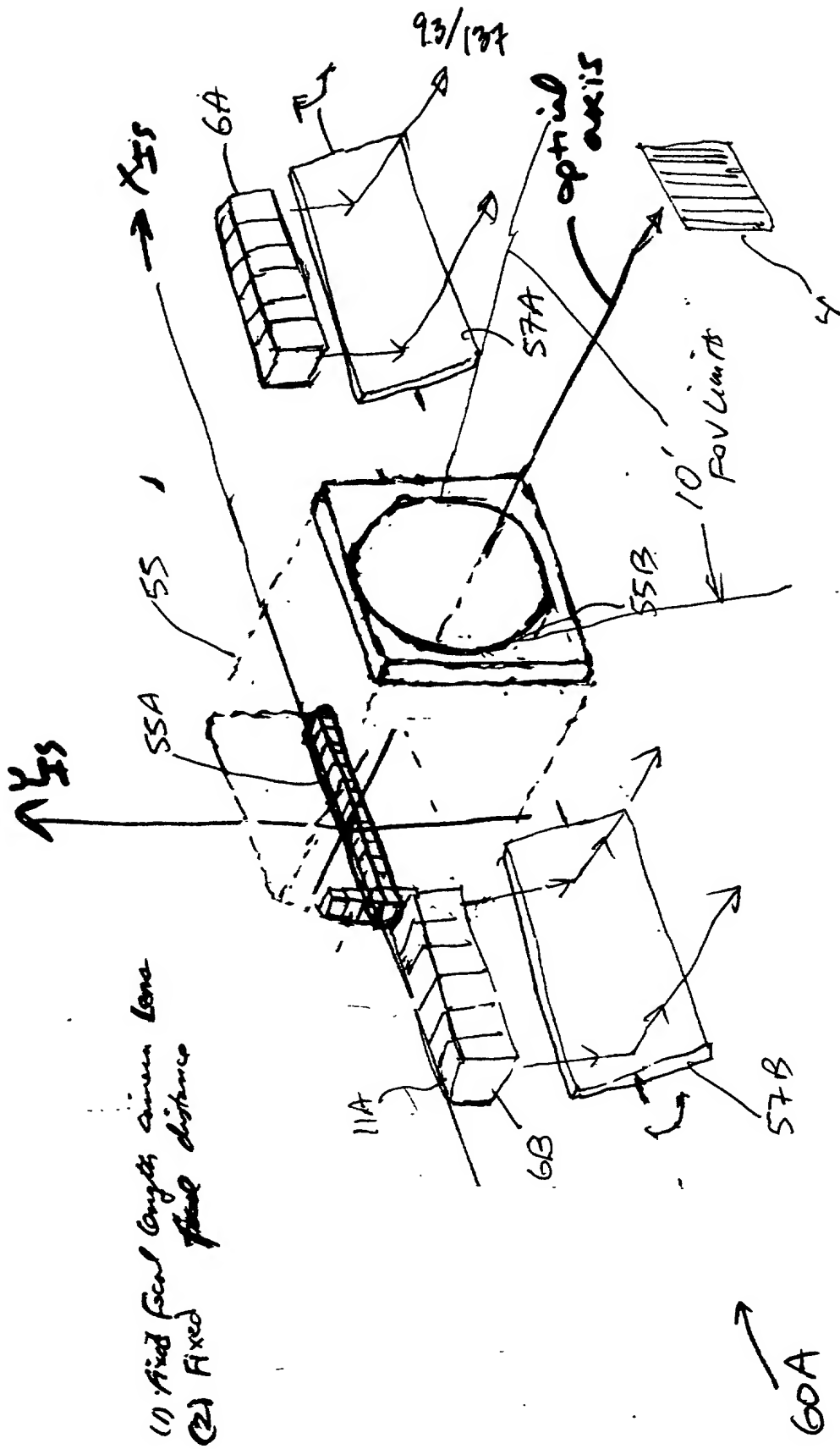
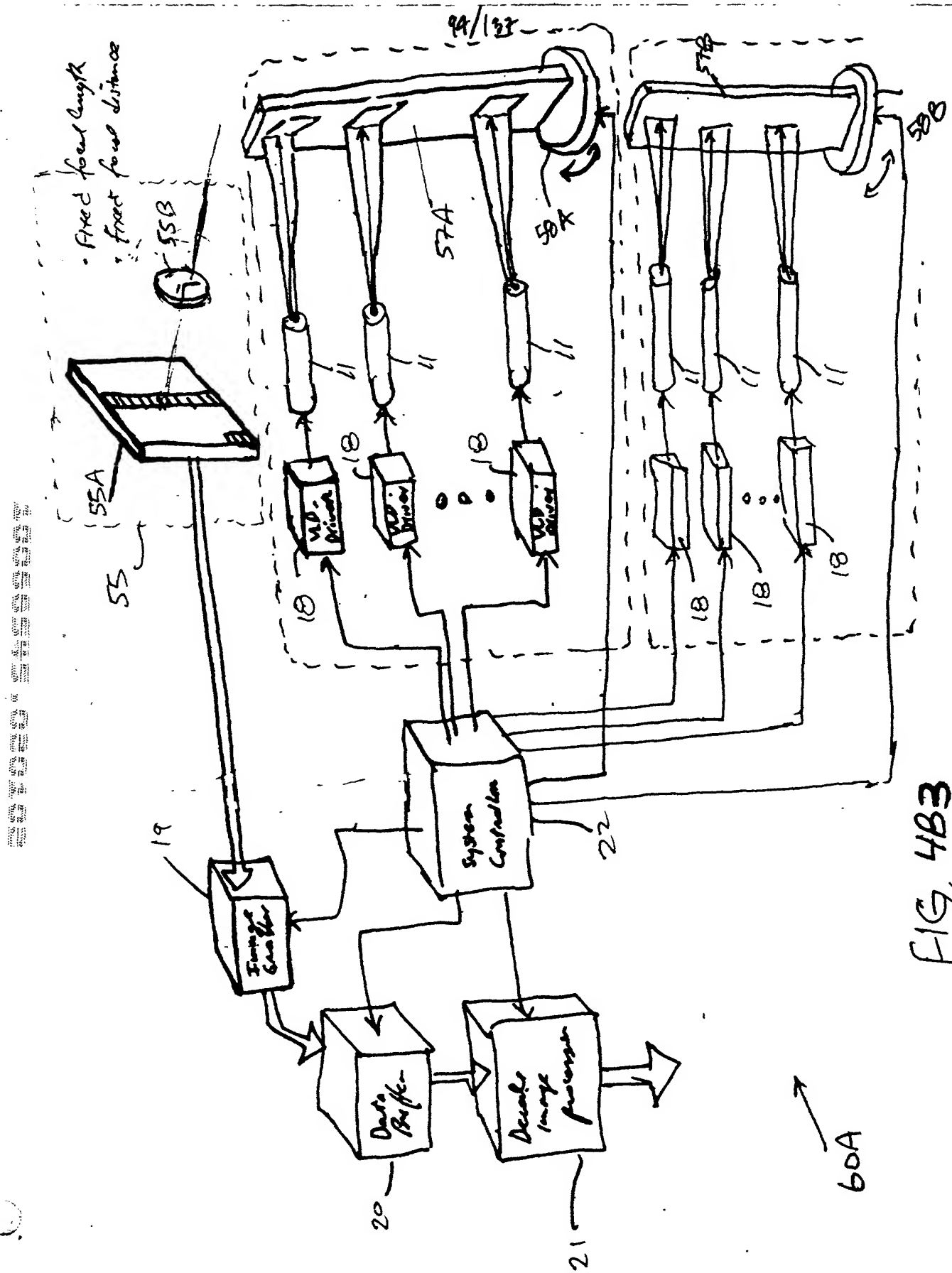


FIG. 4B Z

- (1) Fixed focal length camera lens
- (2) Fixed focal distance



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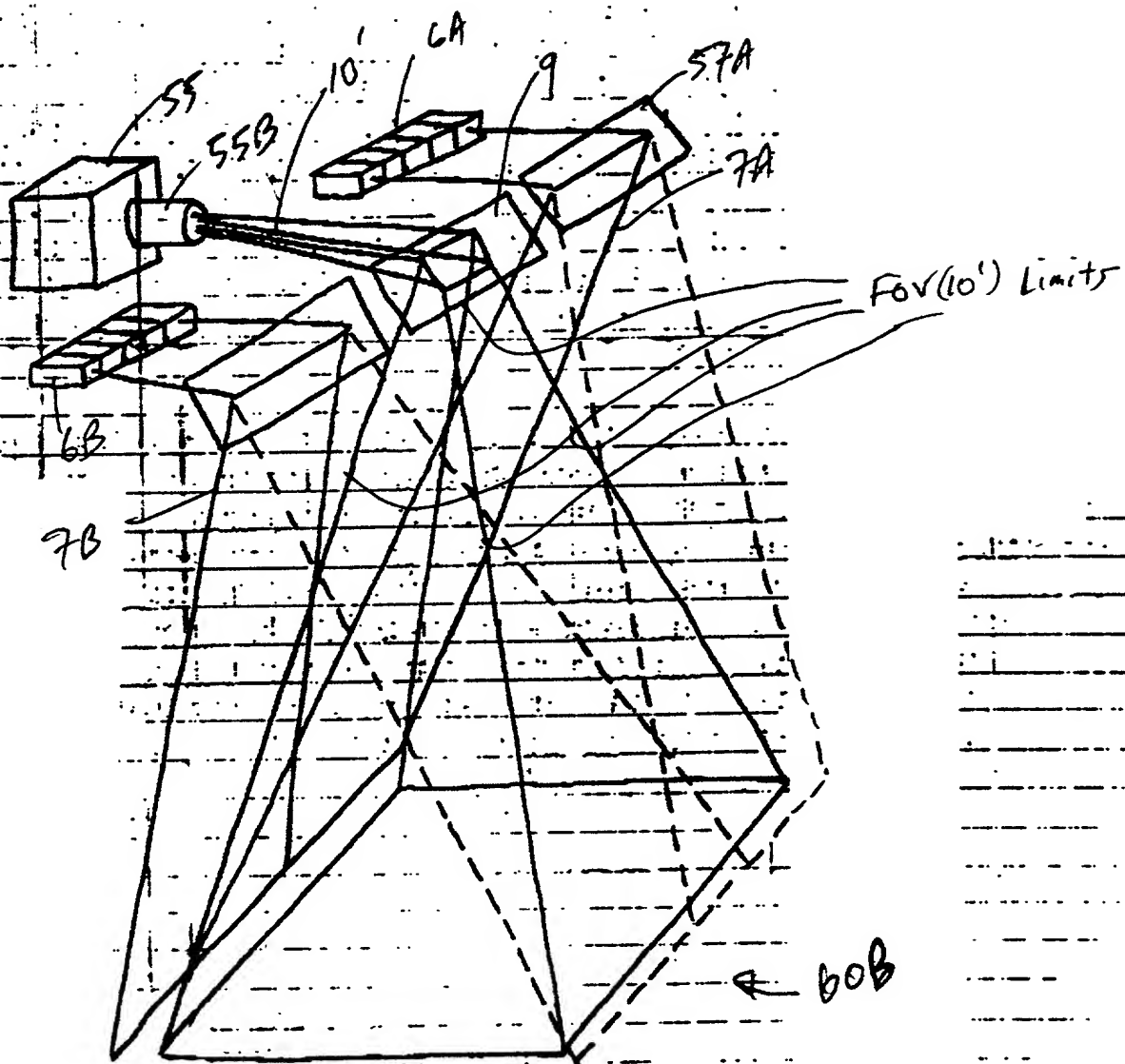


FIG. 4C-L

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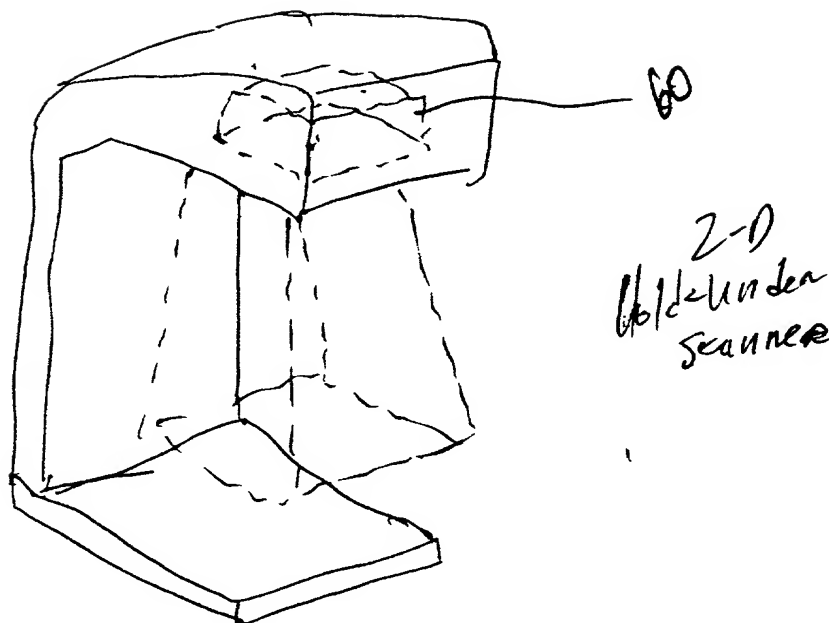


FIG. 4D

1. The present invention is a hand-held scanner for detecting and identifying objects in a scene. The scanner is used by a user to scan a scene and the scanner will detect and identify objects in the scene. The scanner is used by a user to scan a scene and the scanner will detect and identify objects in the scene.

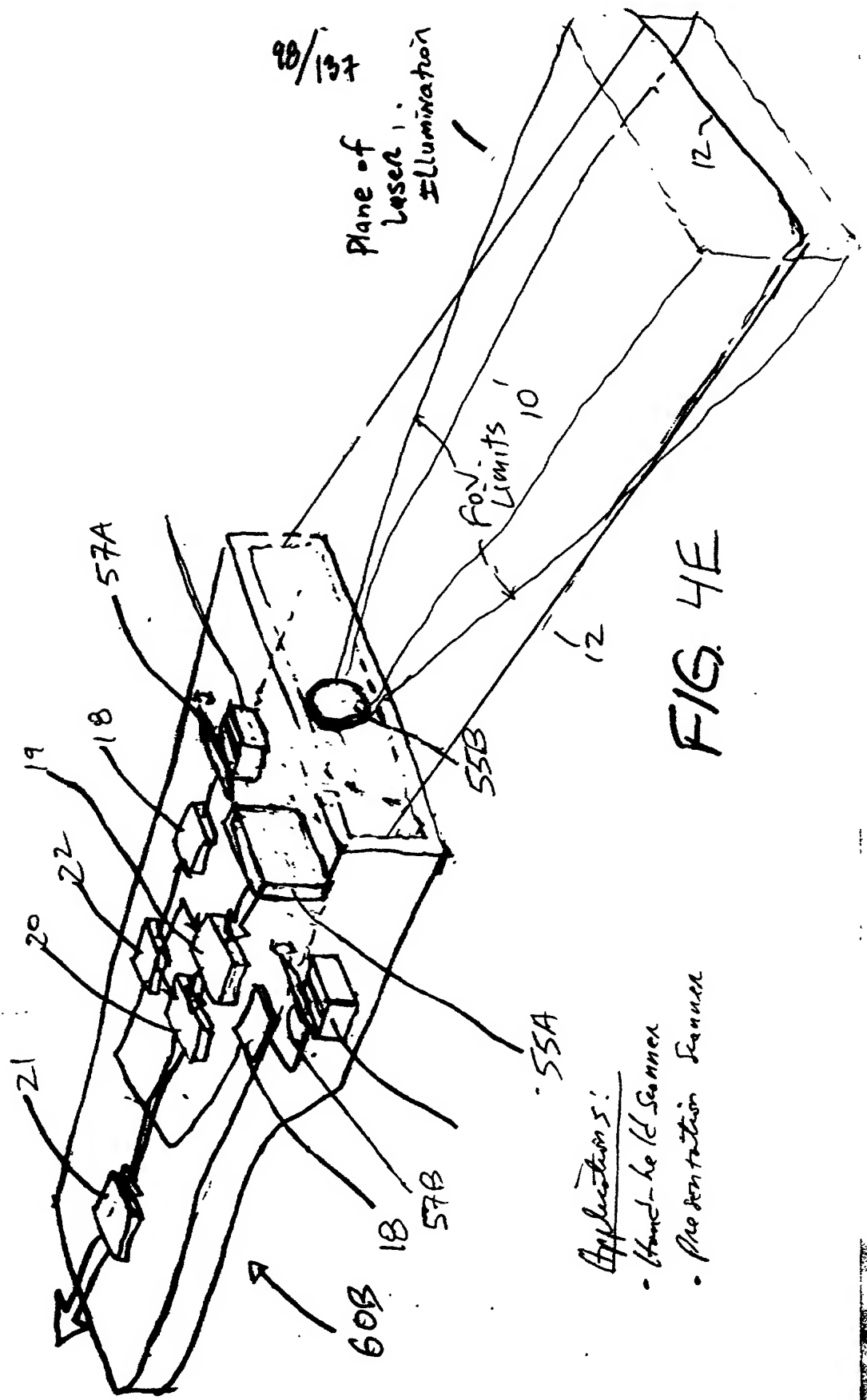


FIG. 4E

- Applications:
- Hand-held Scanner
 - Presentation Scanner

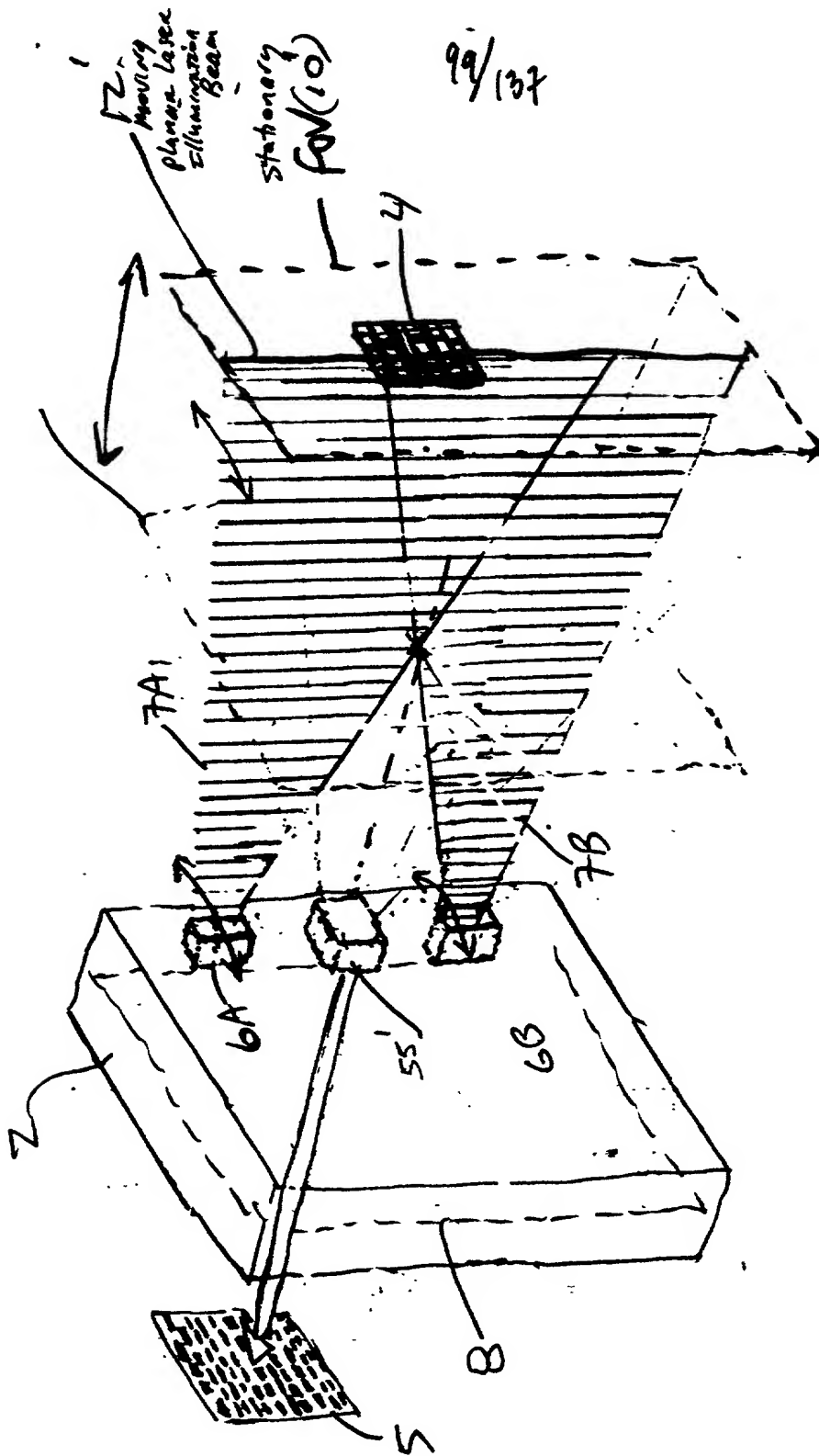


FIG 5A

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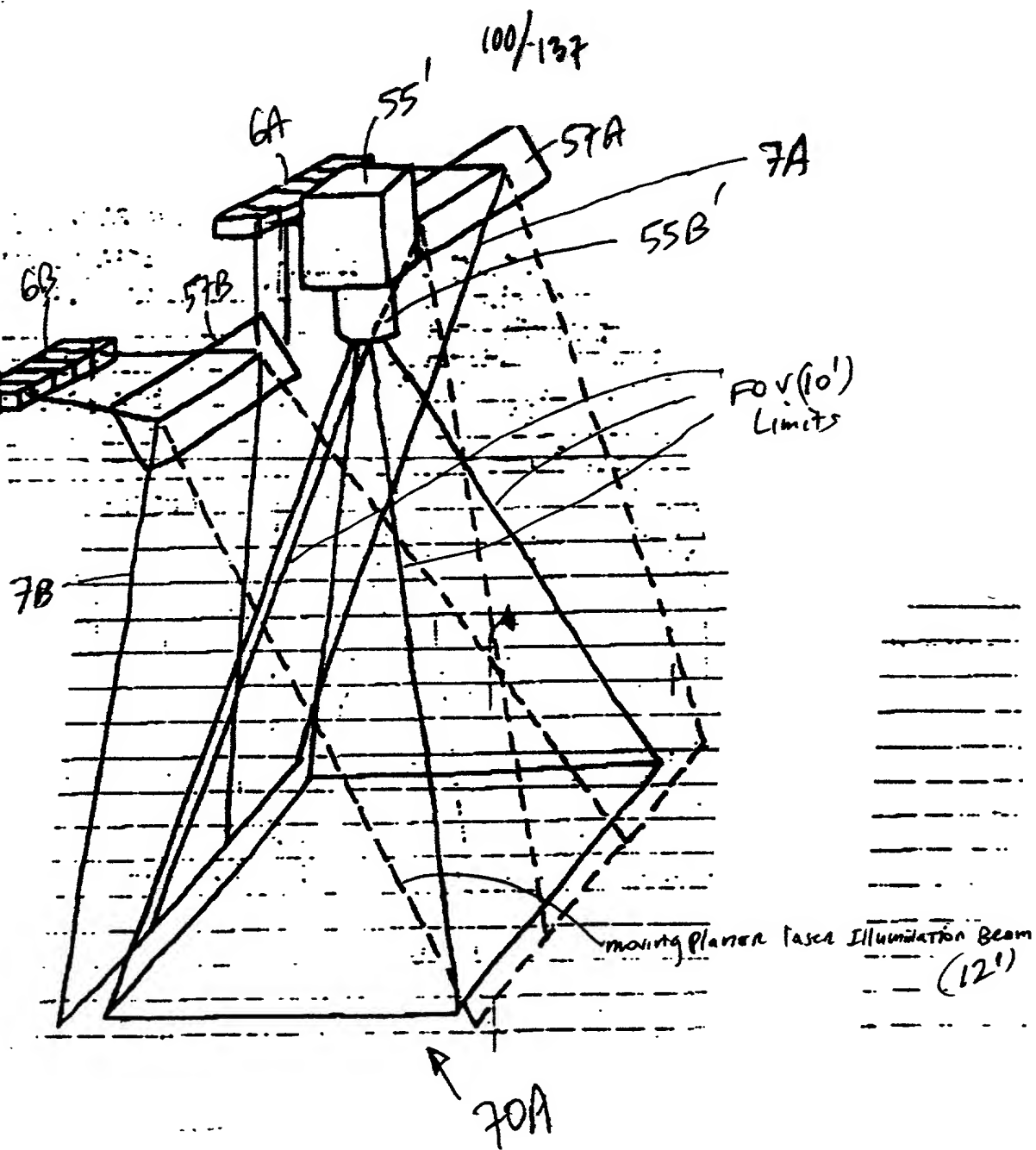


FIG 5B1

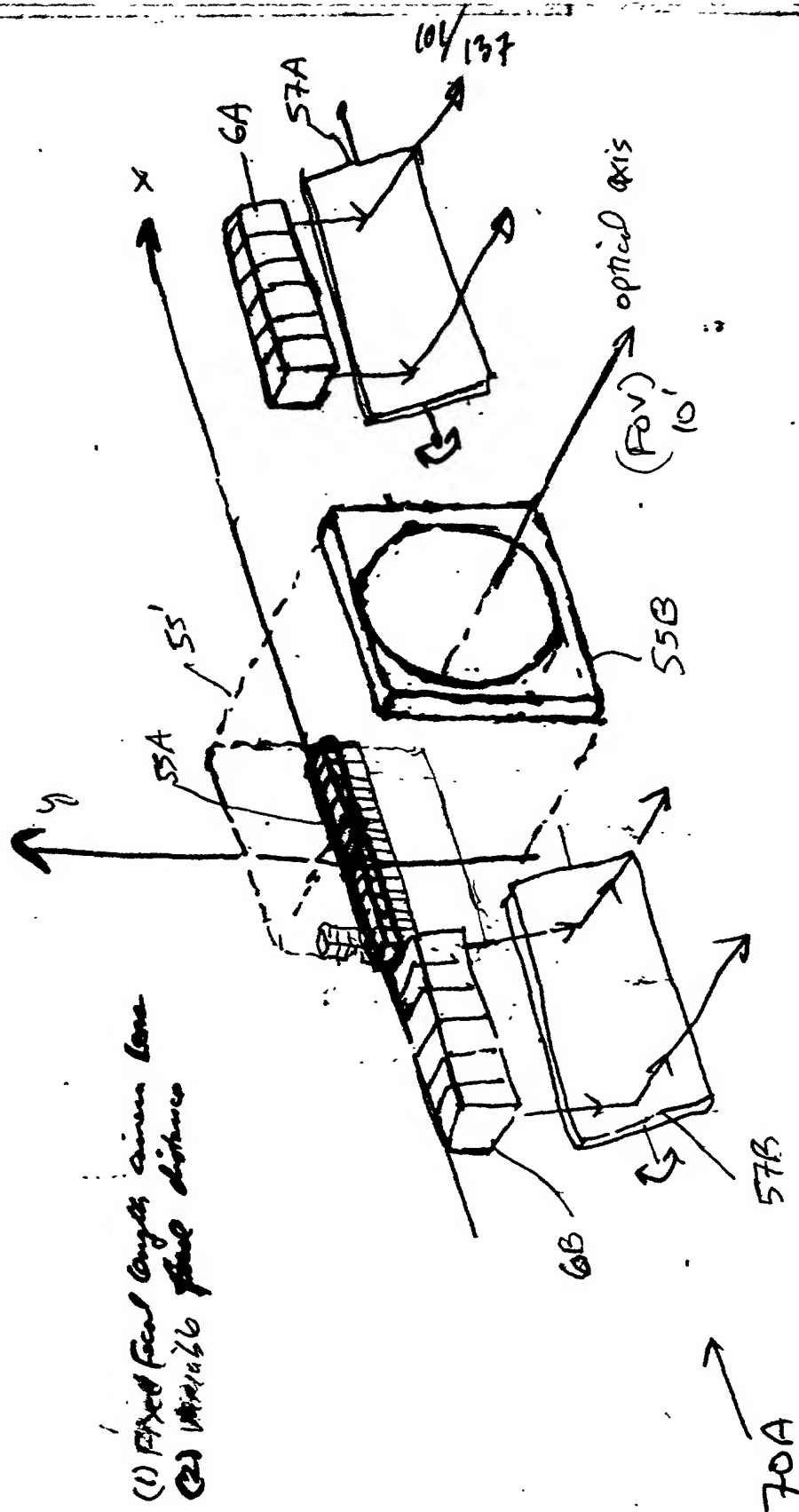


FIG. 5B2

(1) Fixed focal length camera lens
(2) Variable focal distance

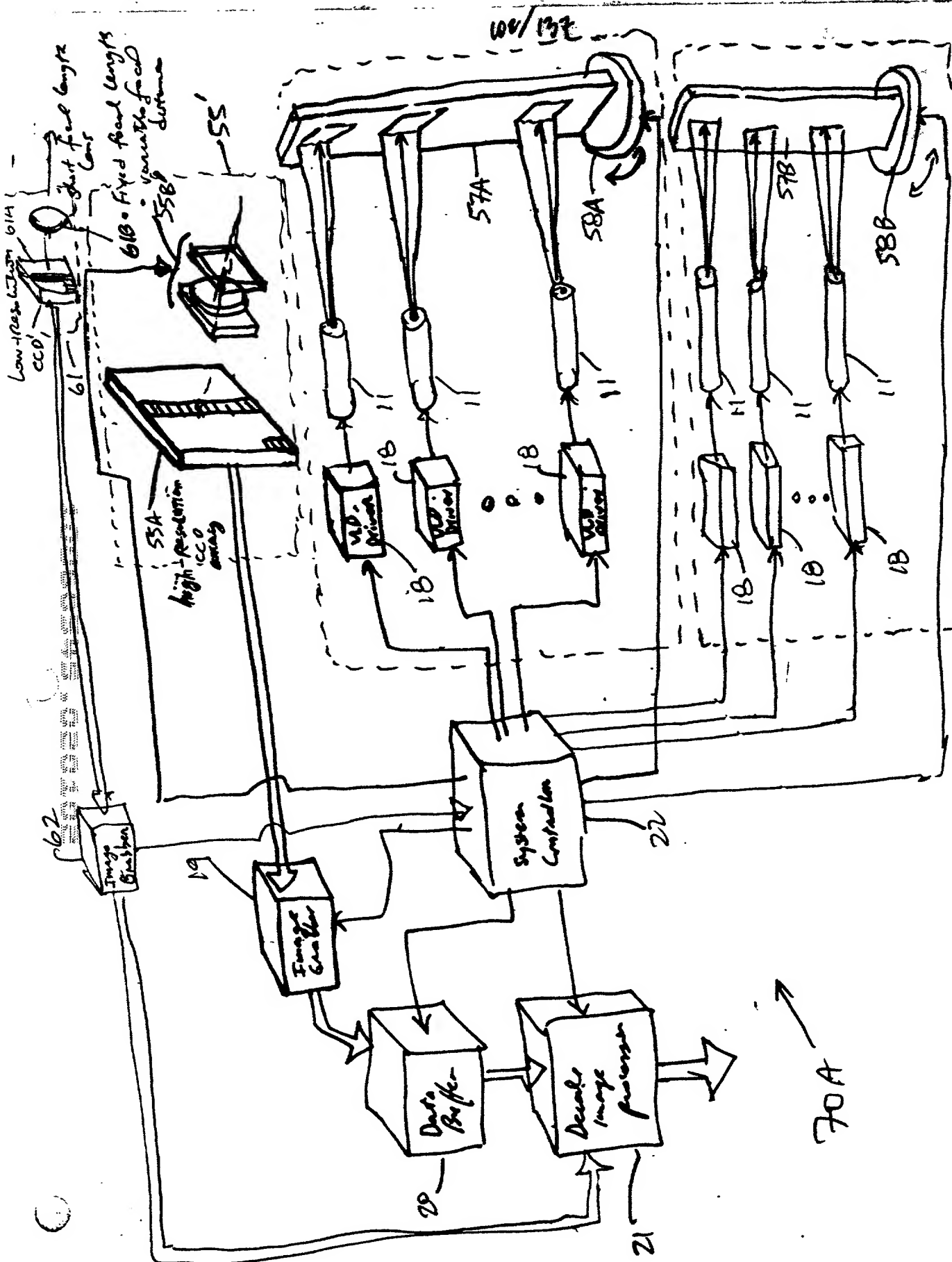
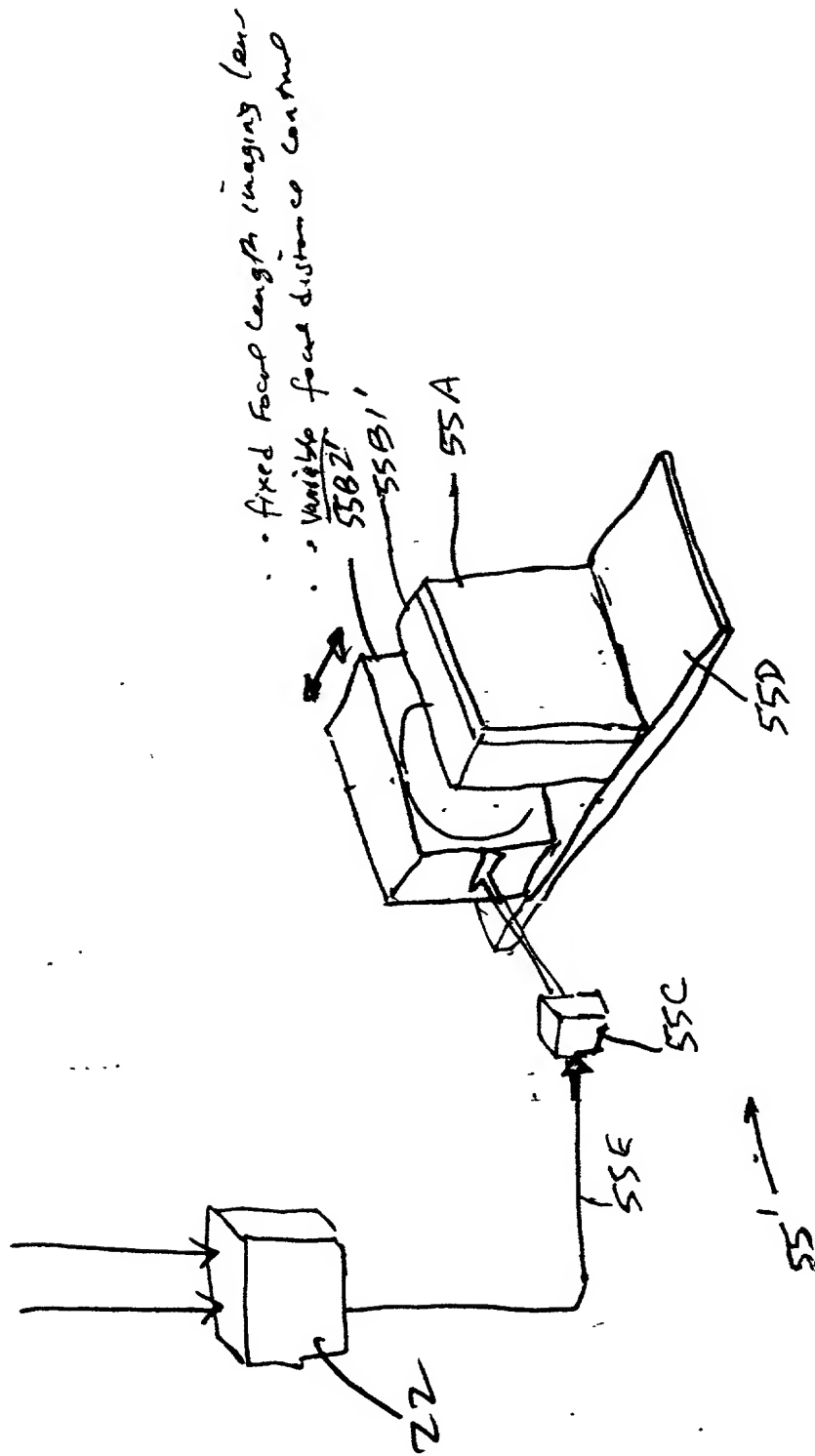


FIG. 5B3

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... fixed focal length imaging lens
... variable focus distance control

FIG. 5B4

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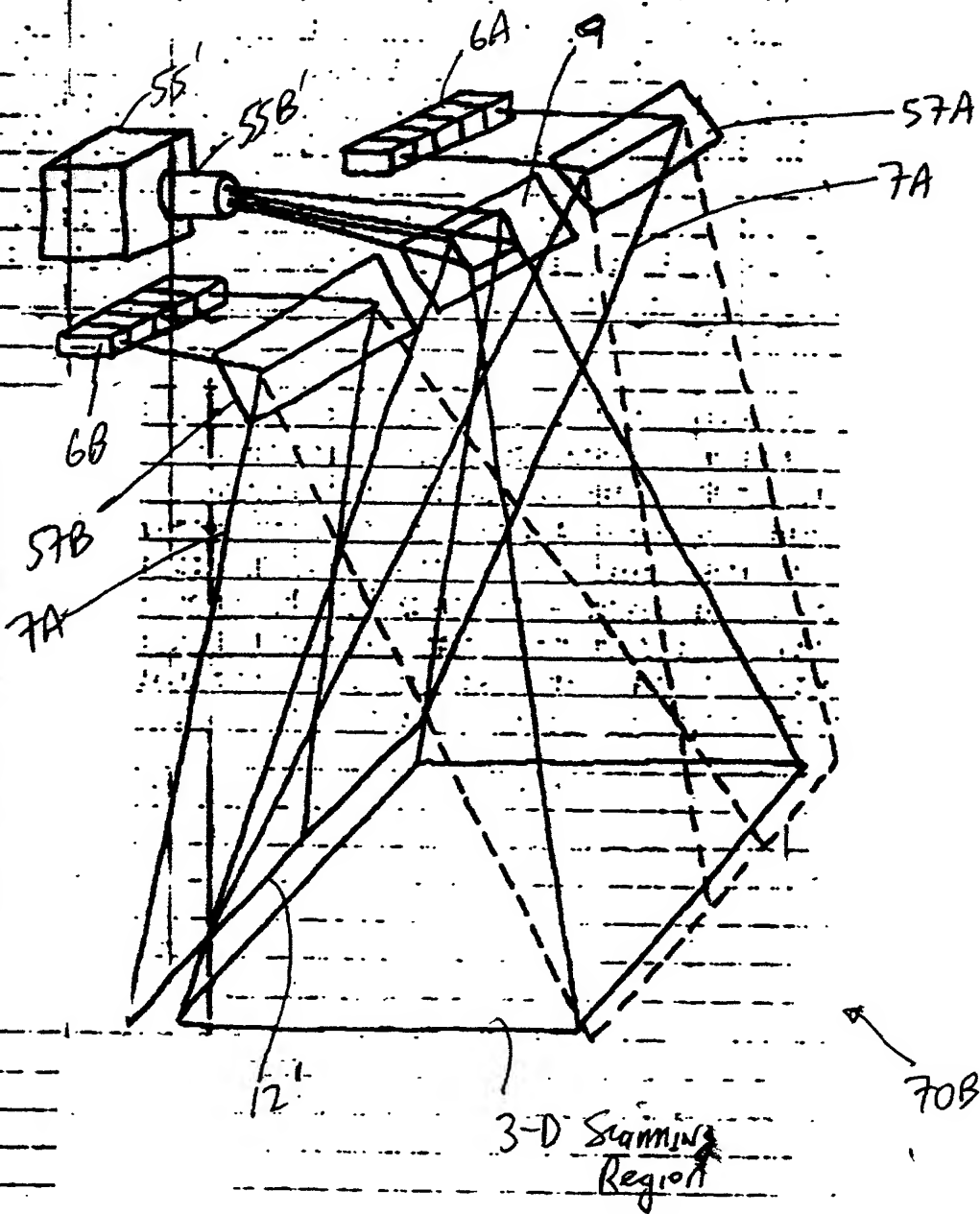


FIG. 5C1

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(1) variable focal length silicon lens
(2) fixed fluid distance

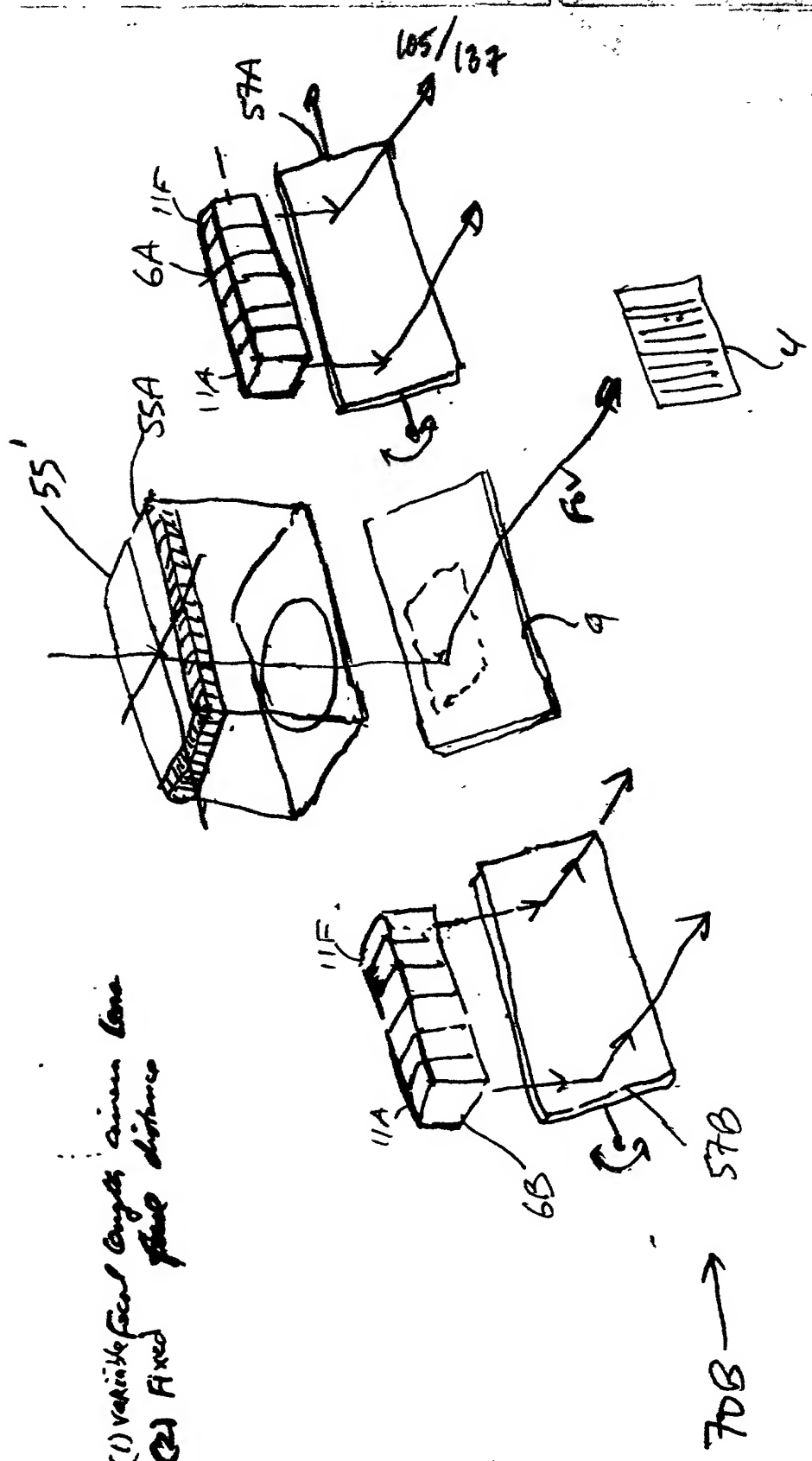
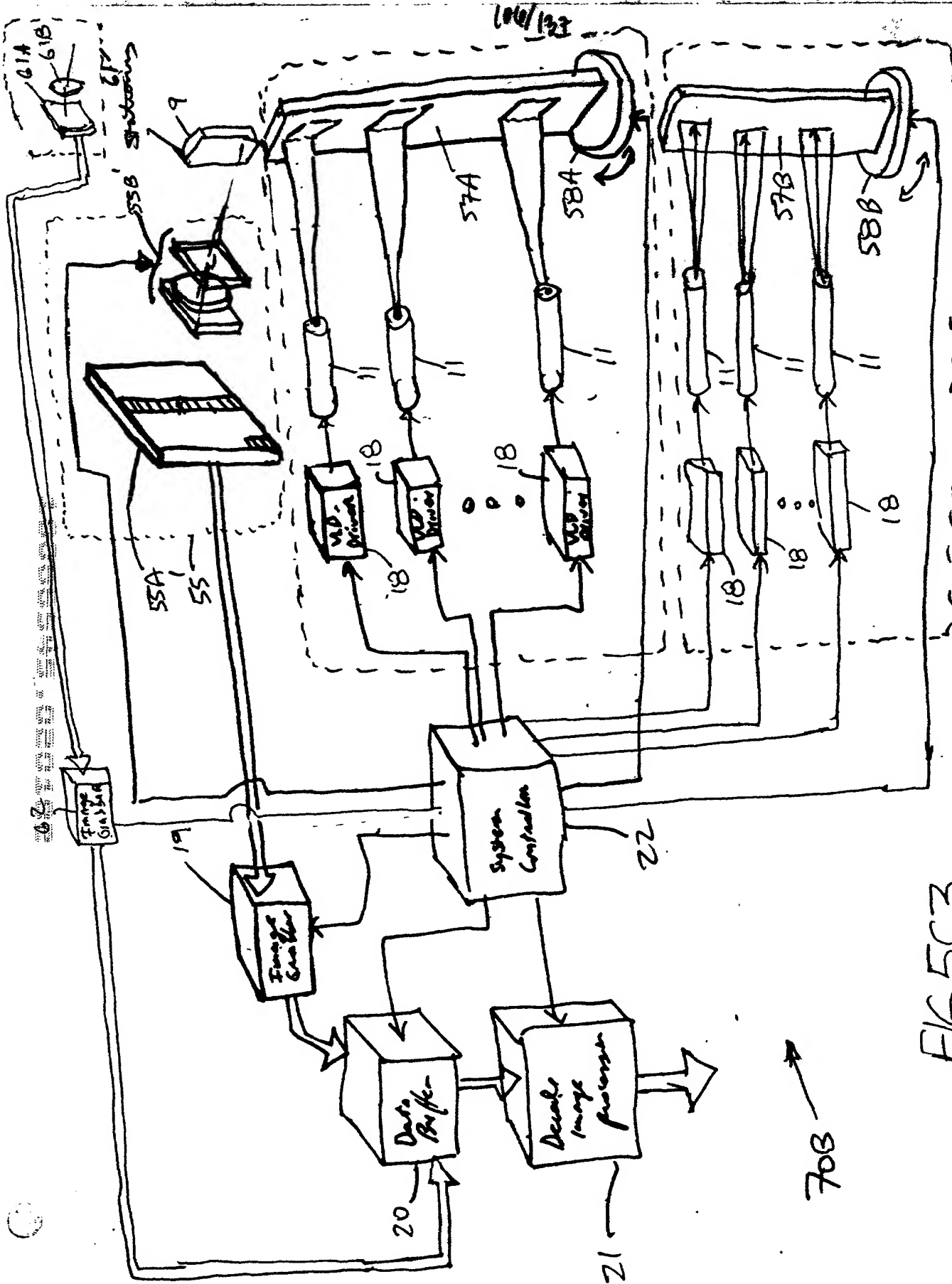


FIG. 5C2



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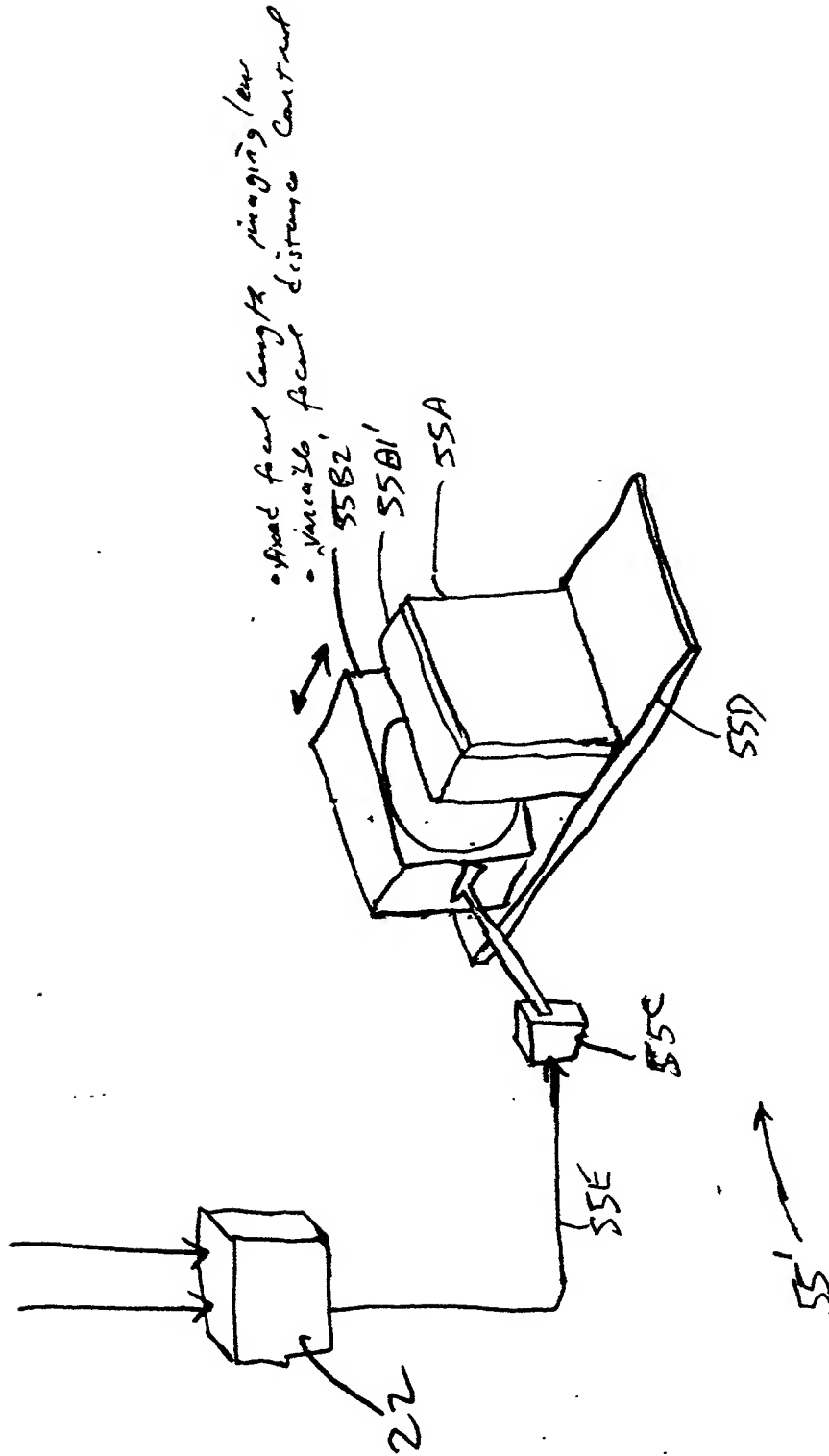


FIG. 5C4

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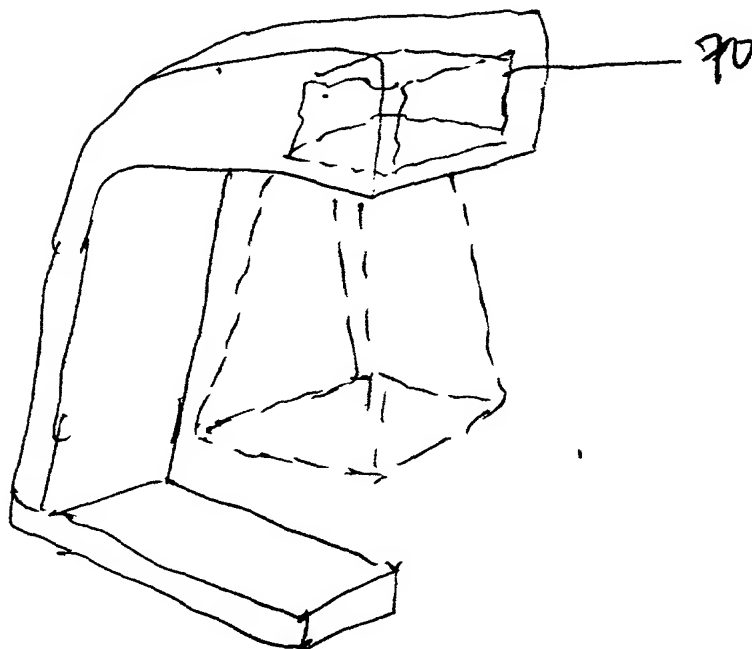


FIG 5D

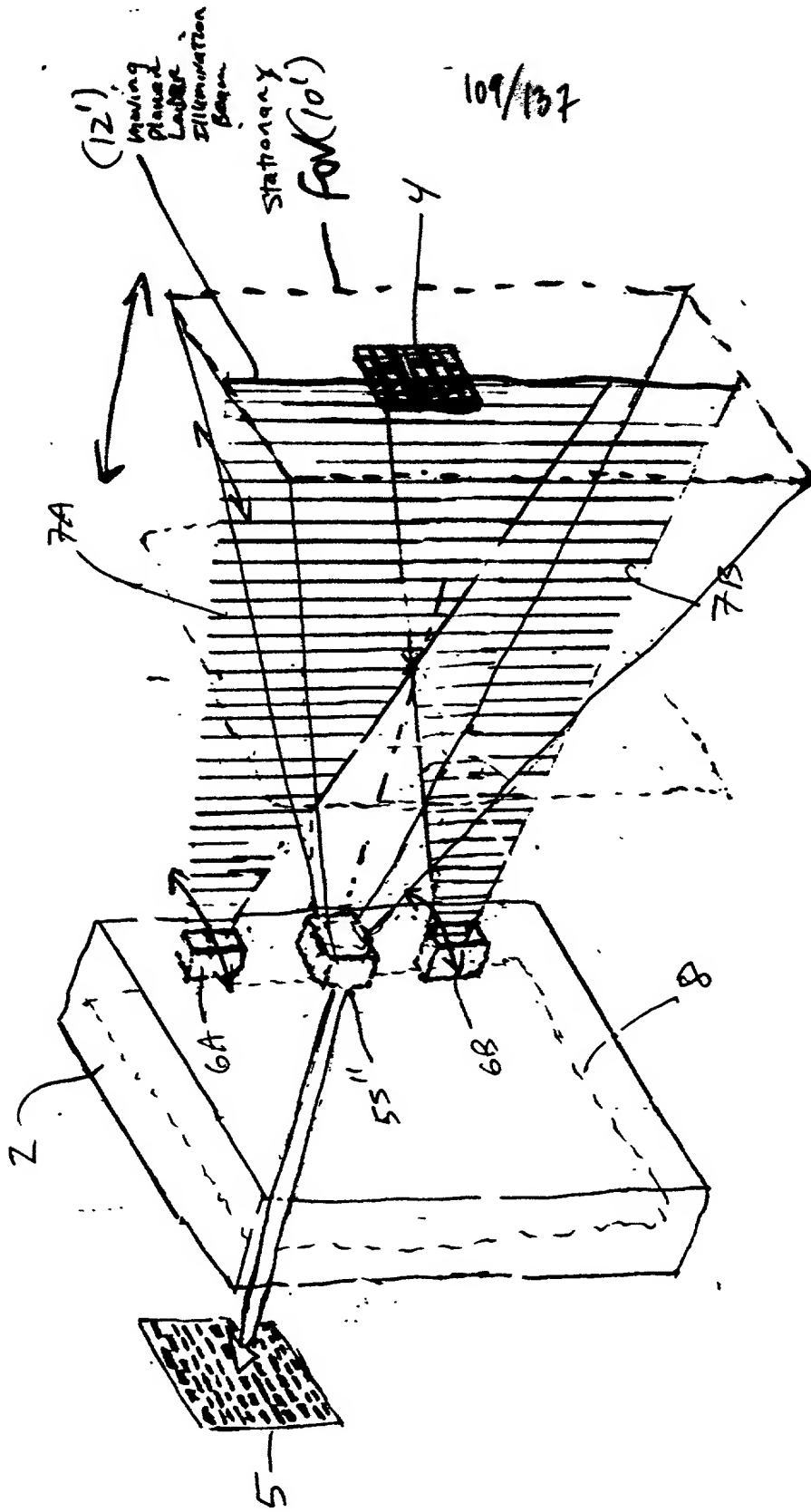


FIG. 6A.

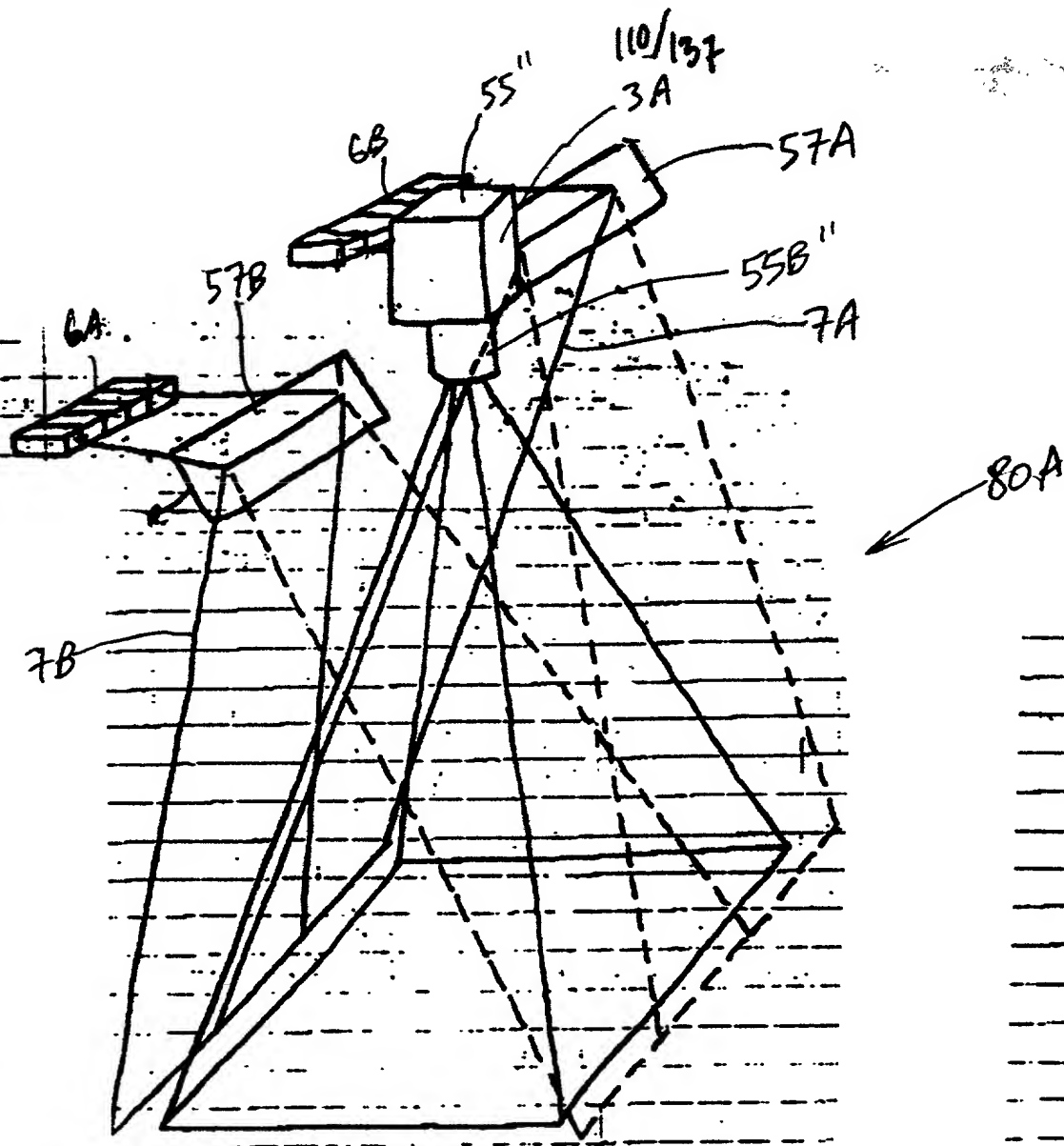
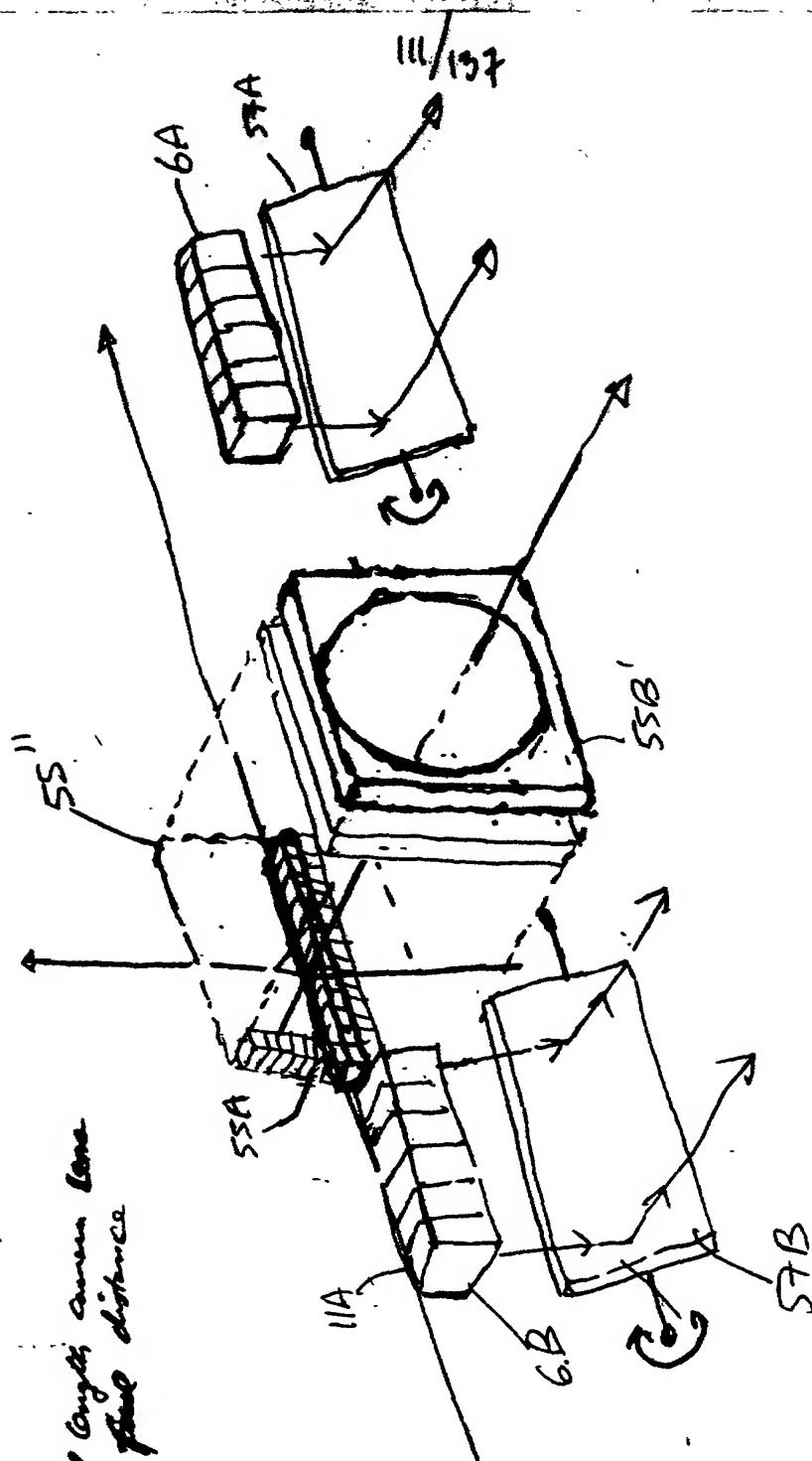
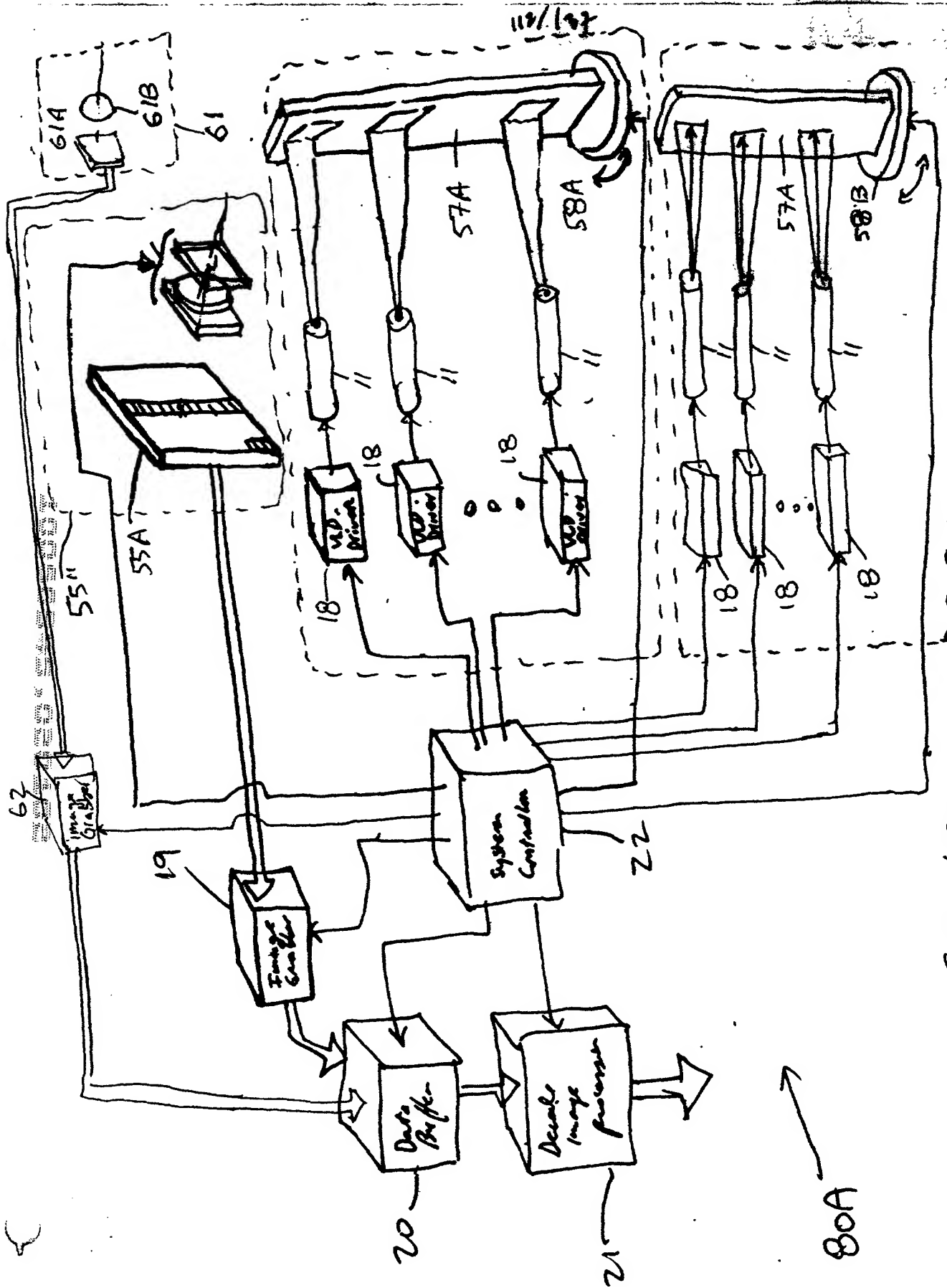


FIG. 6B1



(1) Variable focal length camera lens
(2) Variable focal distance

30A



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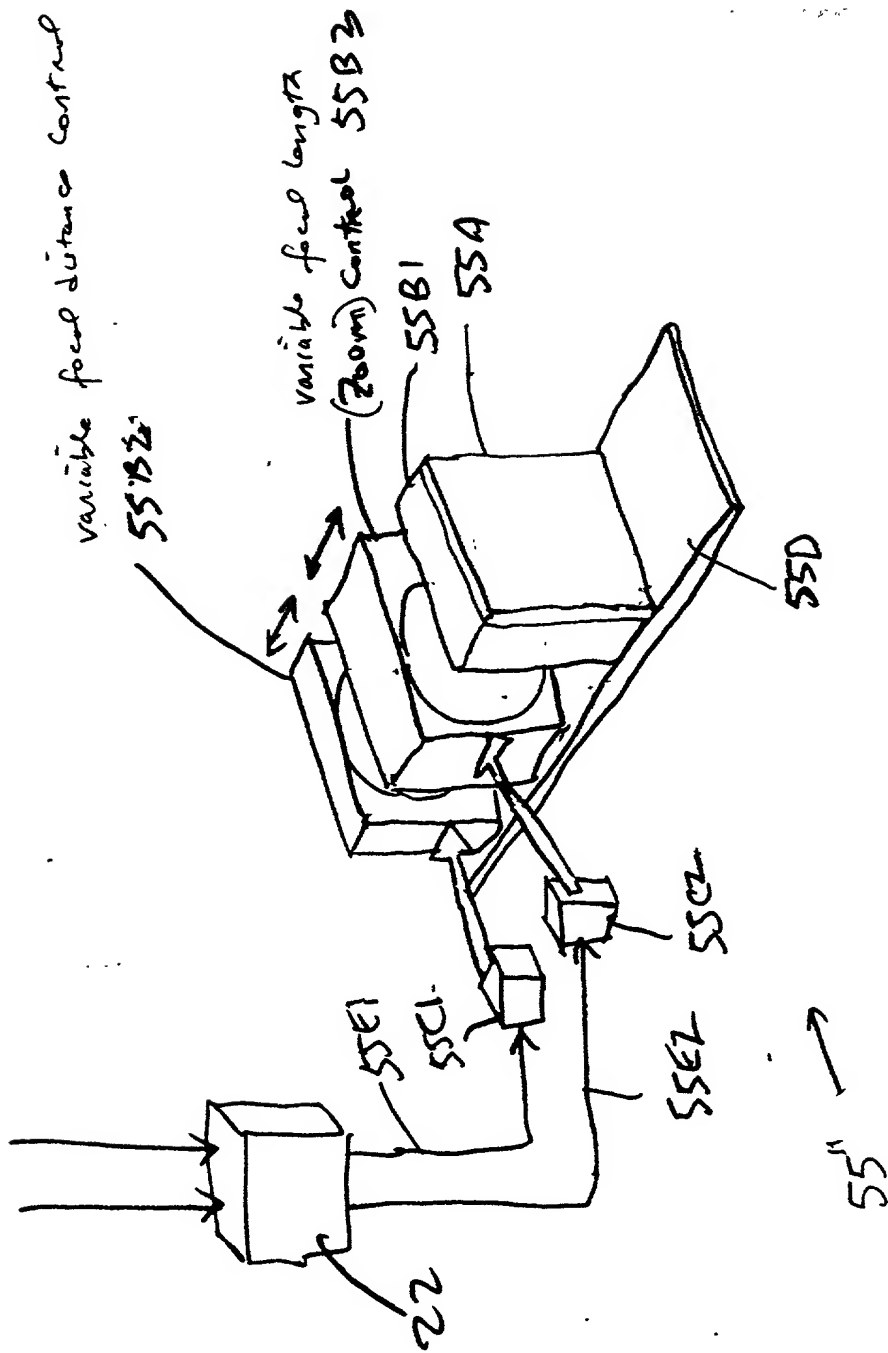


FIG. 6B4

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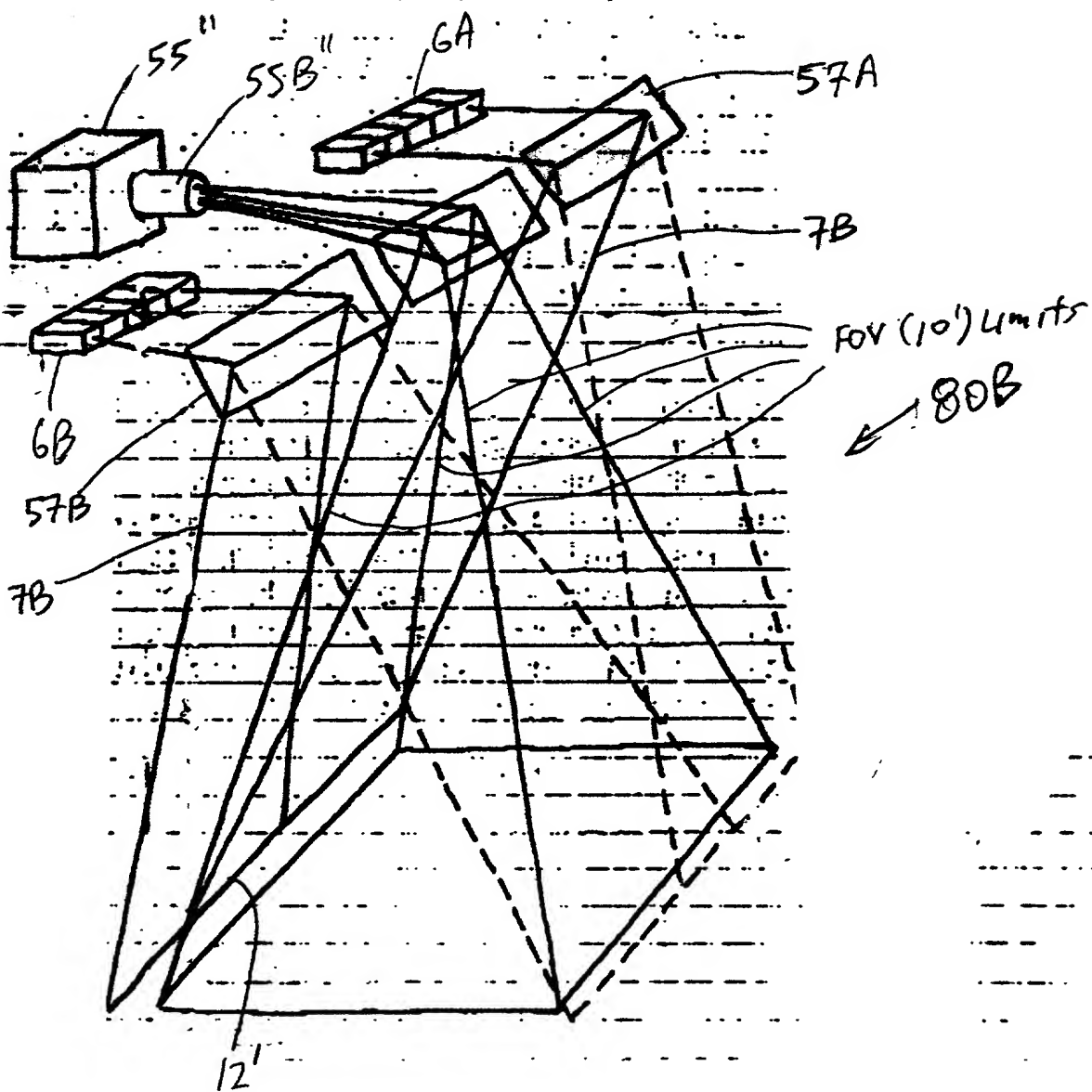


FIG. 6C1

FIG. 6C2

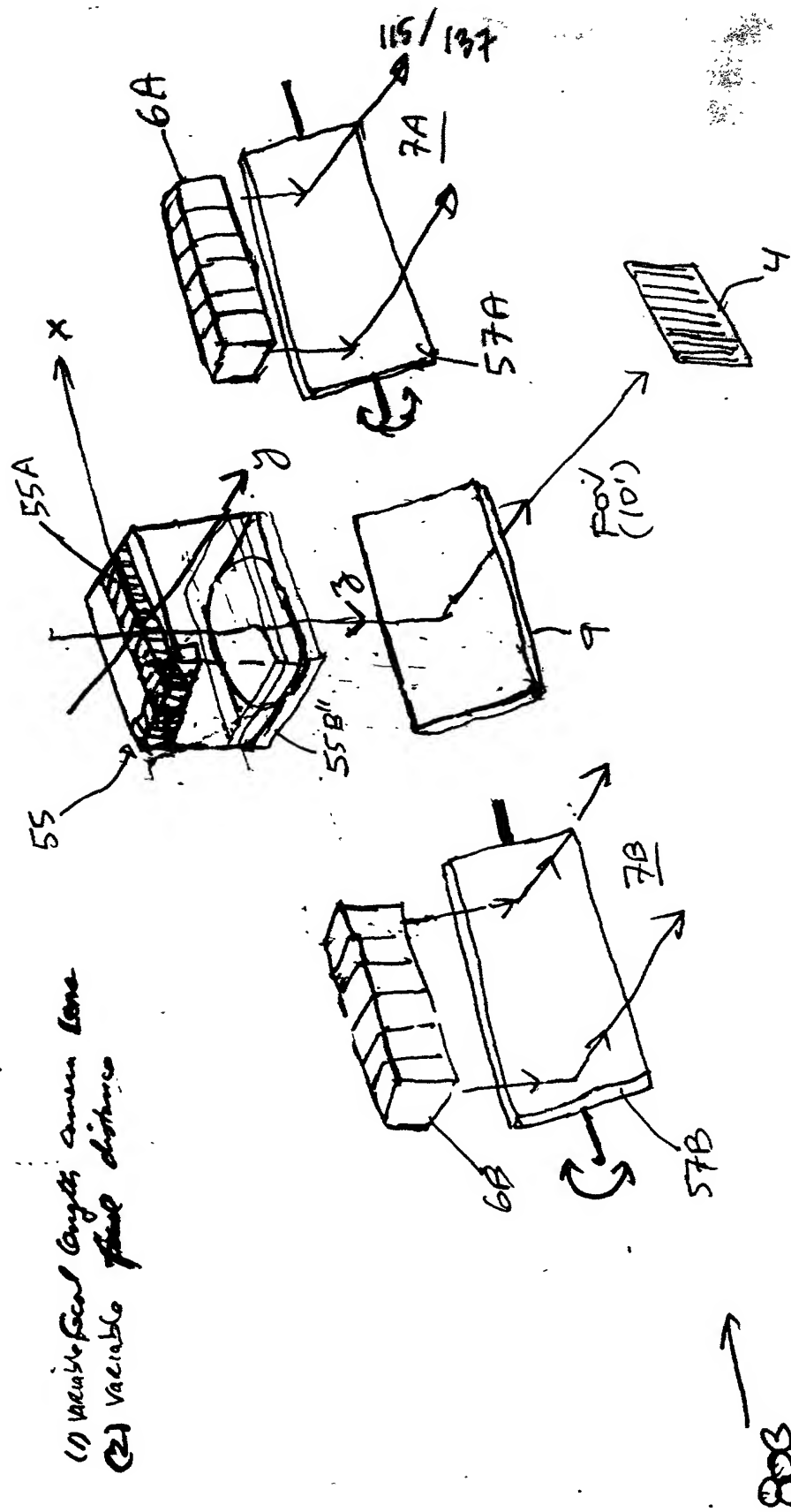


FIG. 6C2

- (1) Variable length inner lens
- (2) Variable fluid distance



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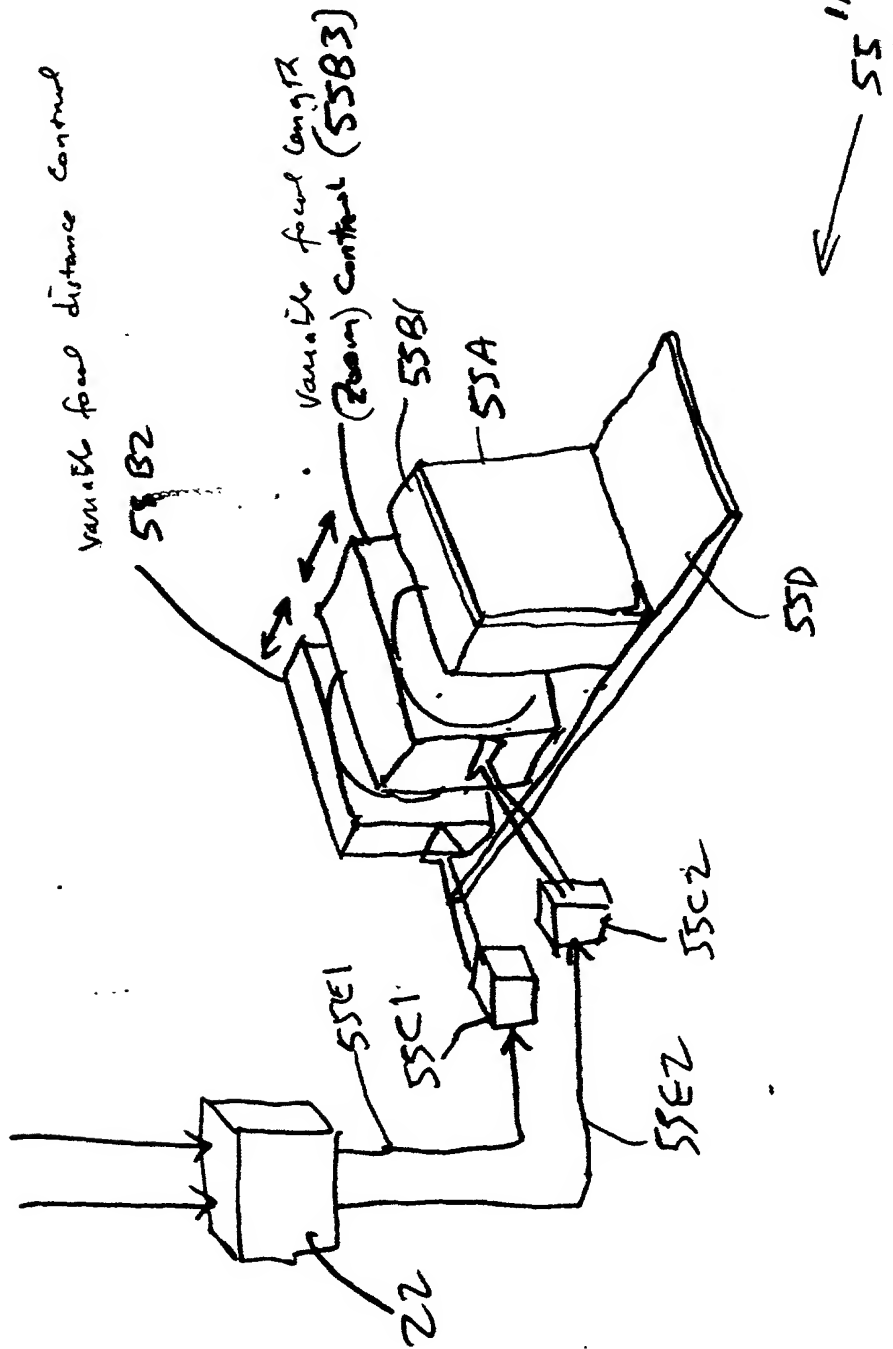


FIG. 6C4

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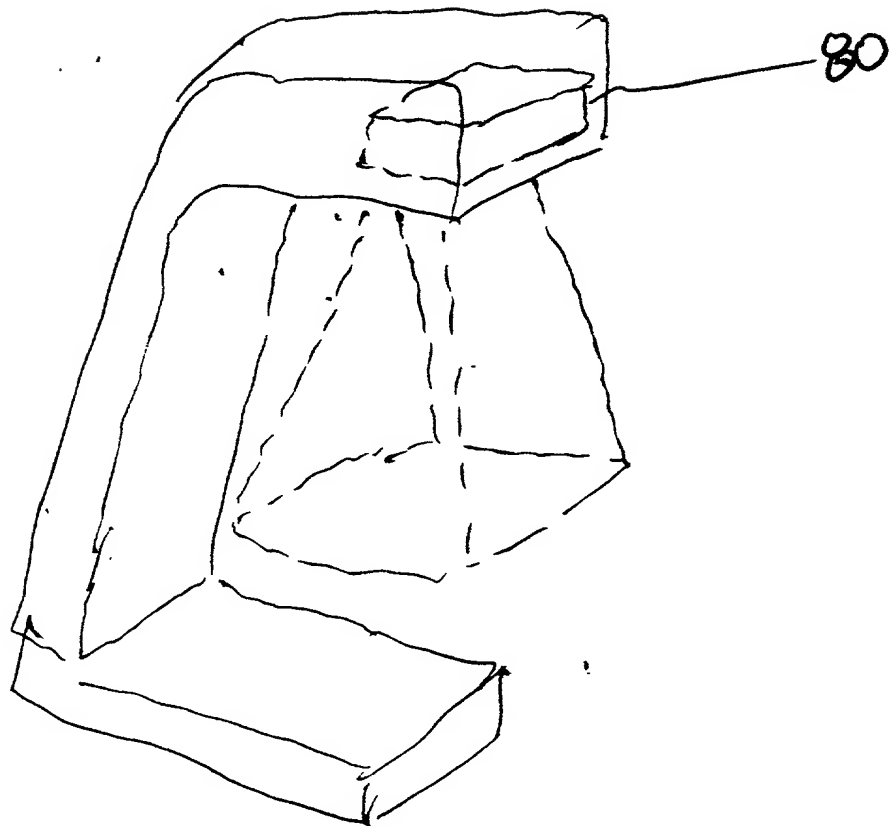


FIG. 6D

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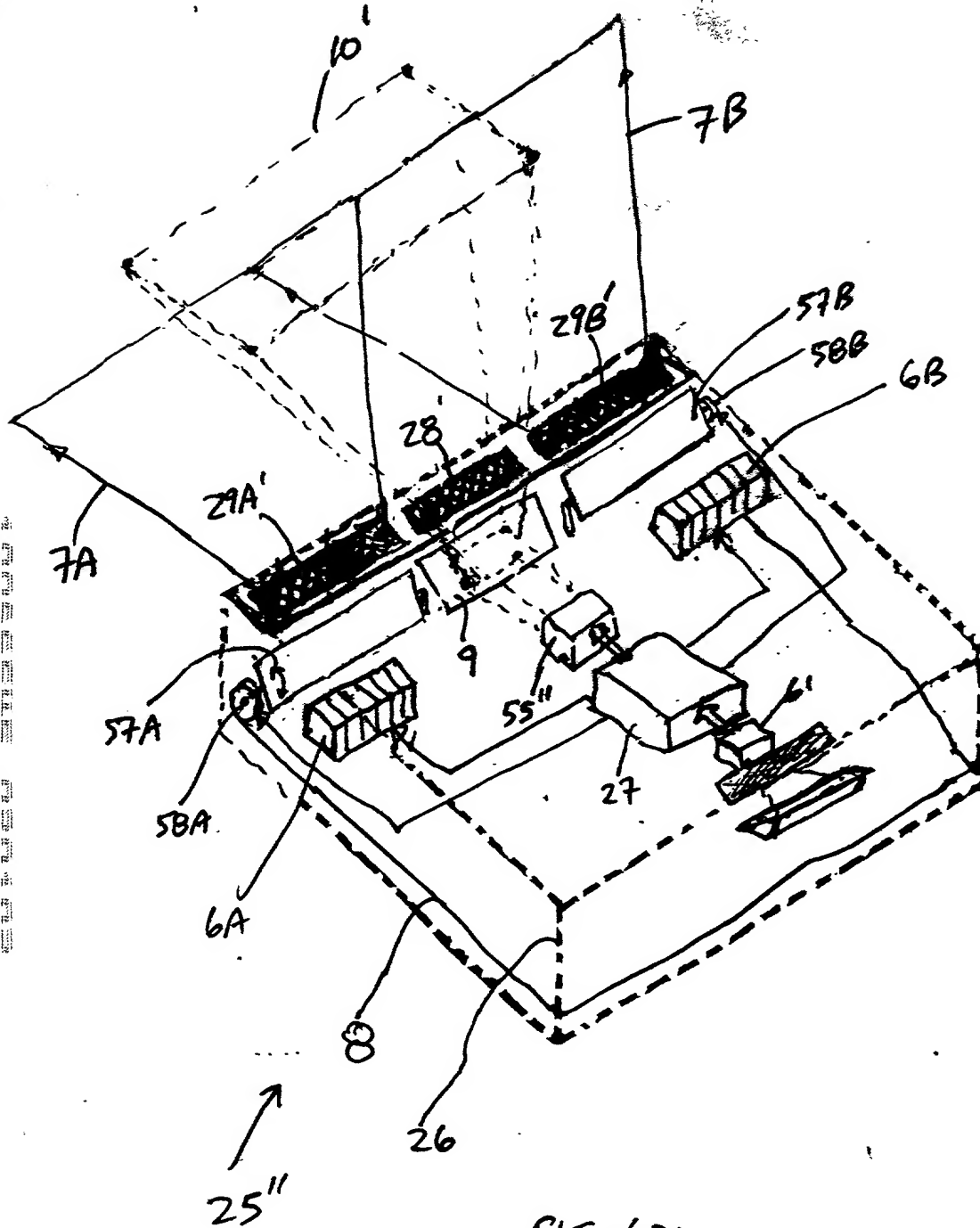


FIG. 6D1

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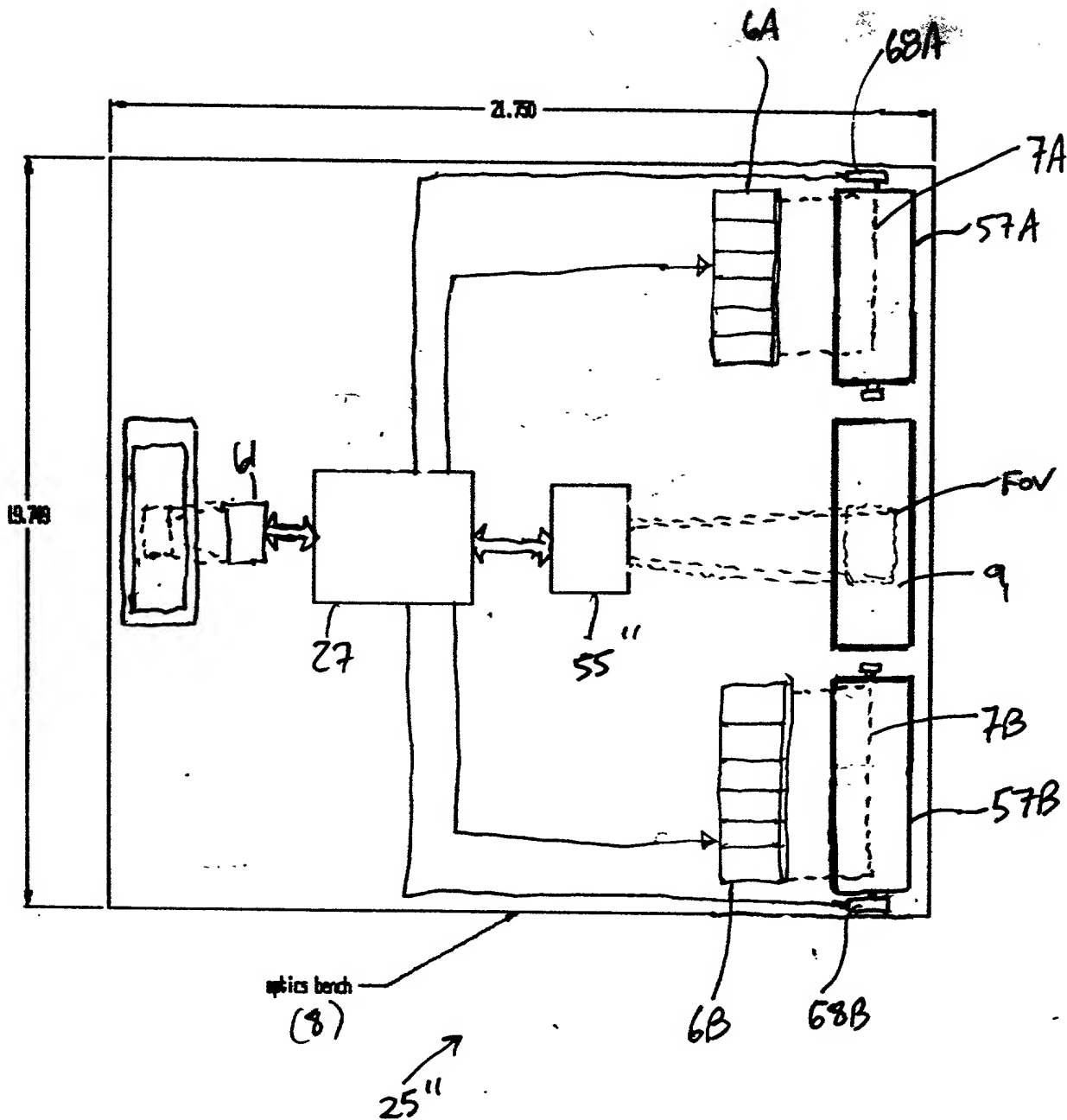
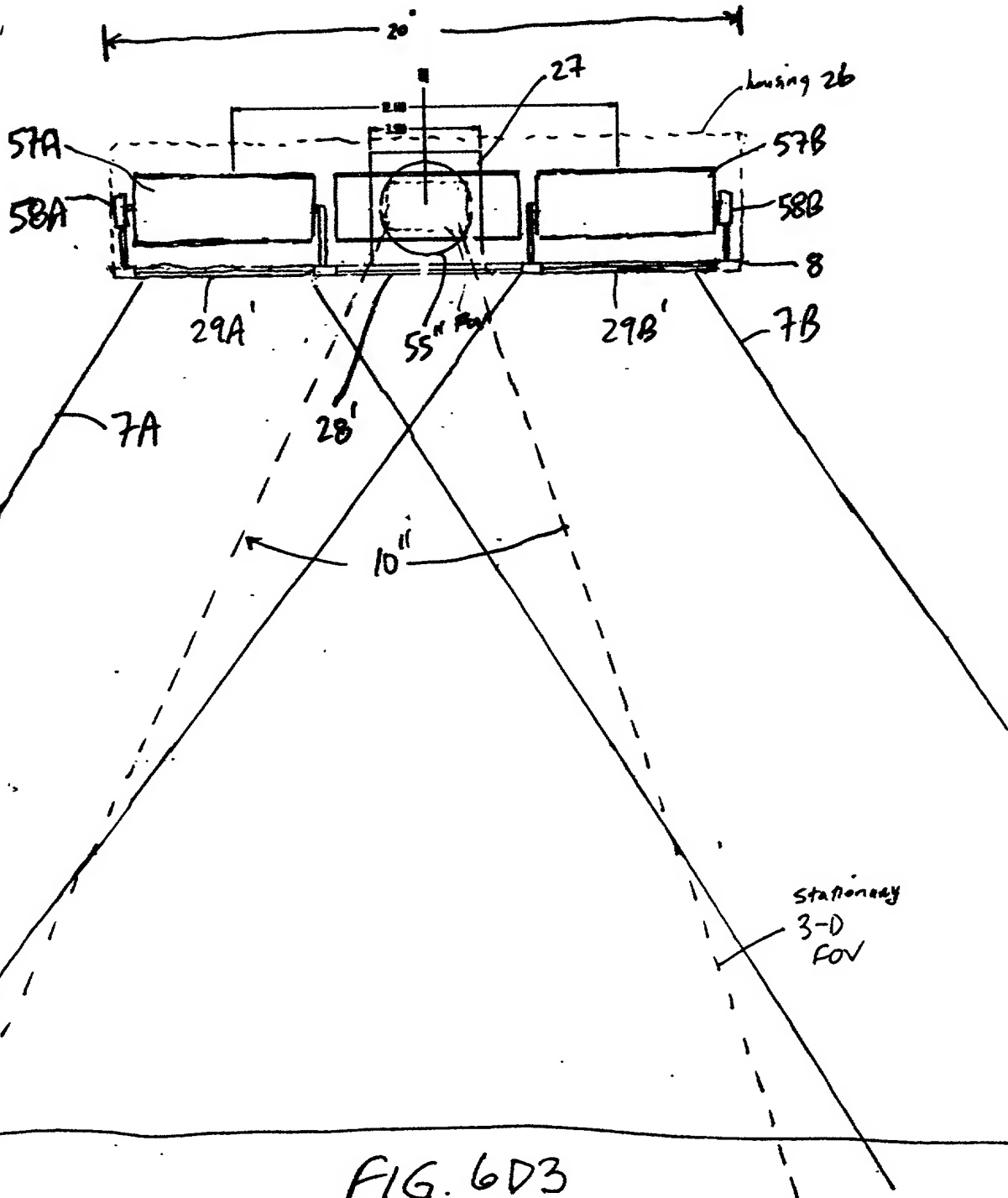


FIG. 6D2

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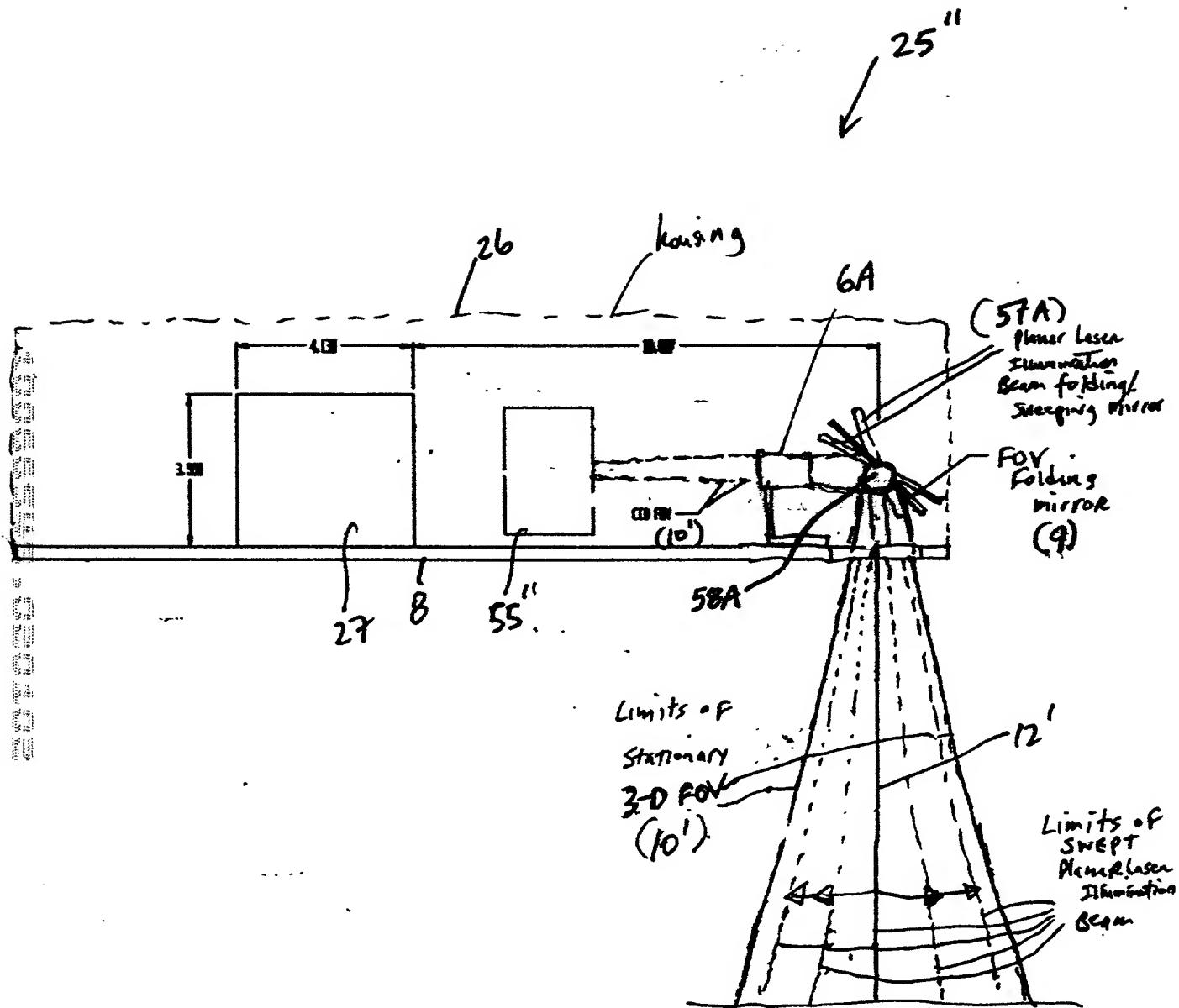


FIG. 6D4

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variable FOV

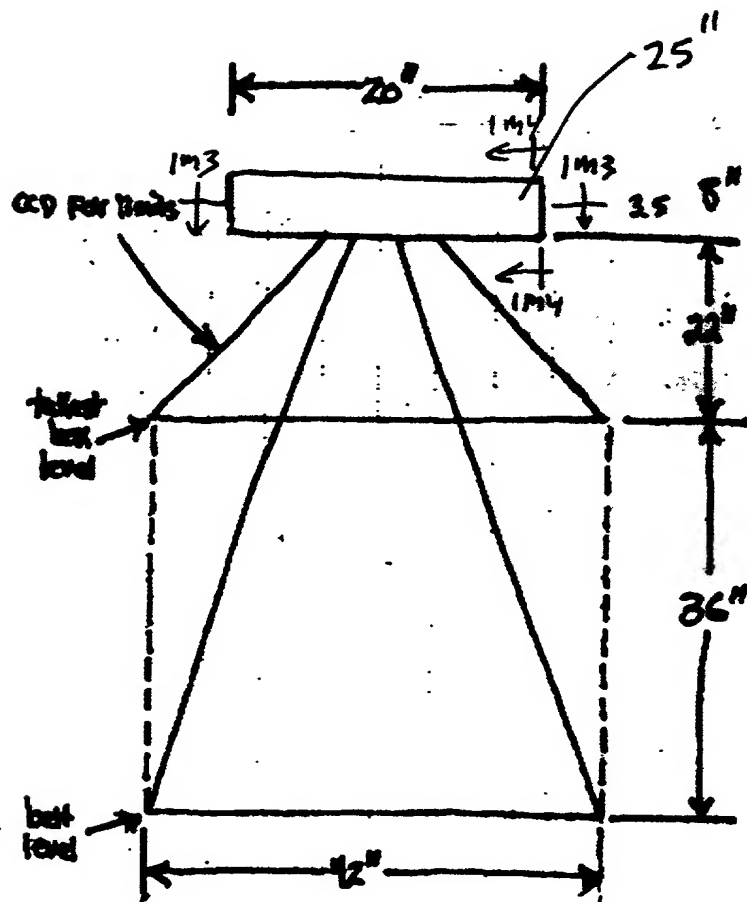


FIG. 6D5

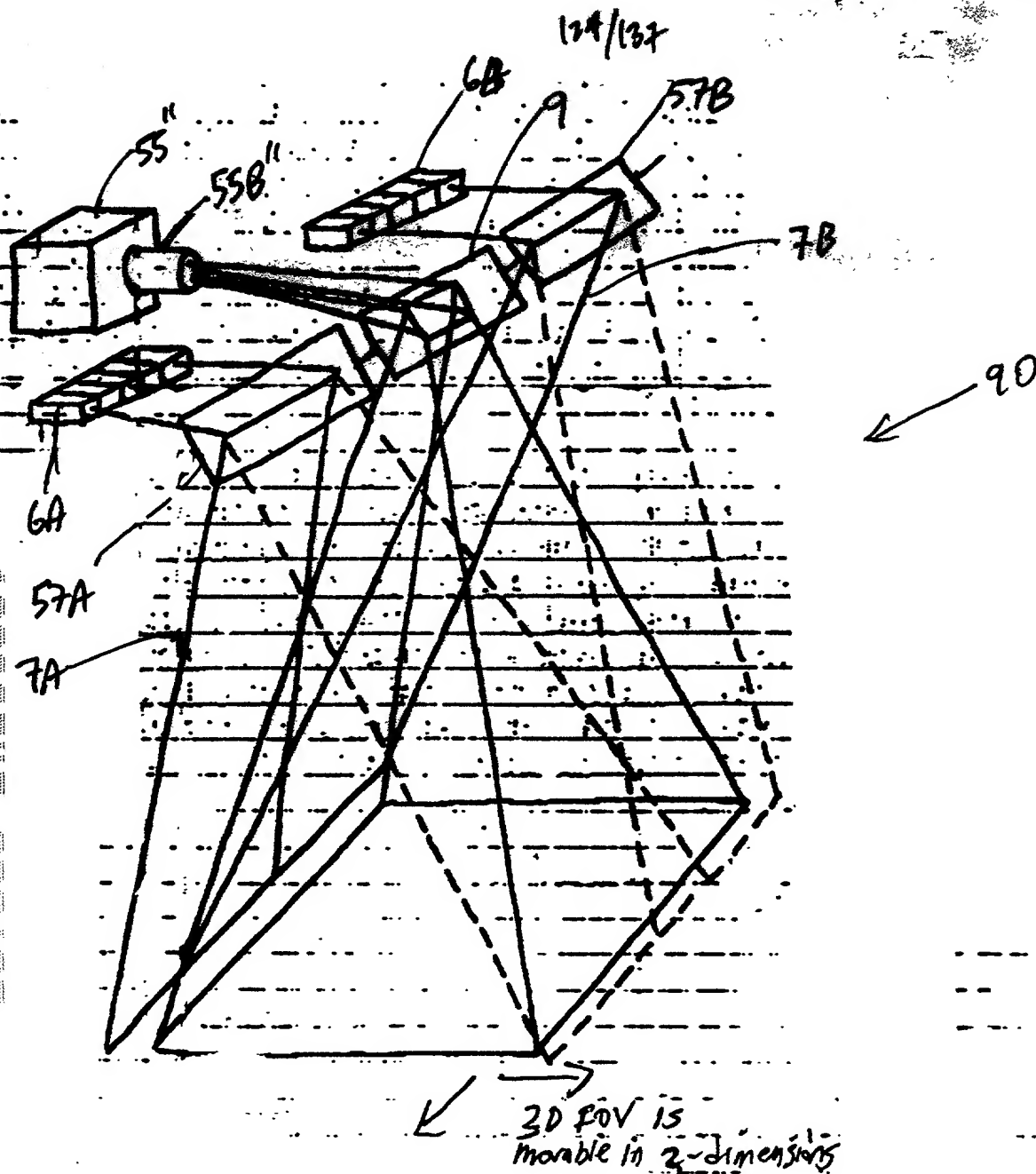
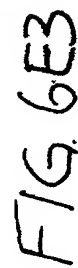


FIG 6E1

FIG. 6E2

FIG. 6F2

[illegible]

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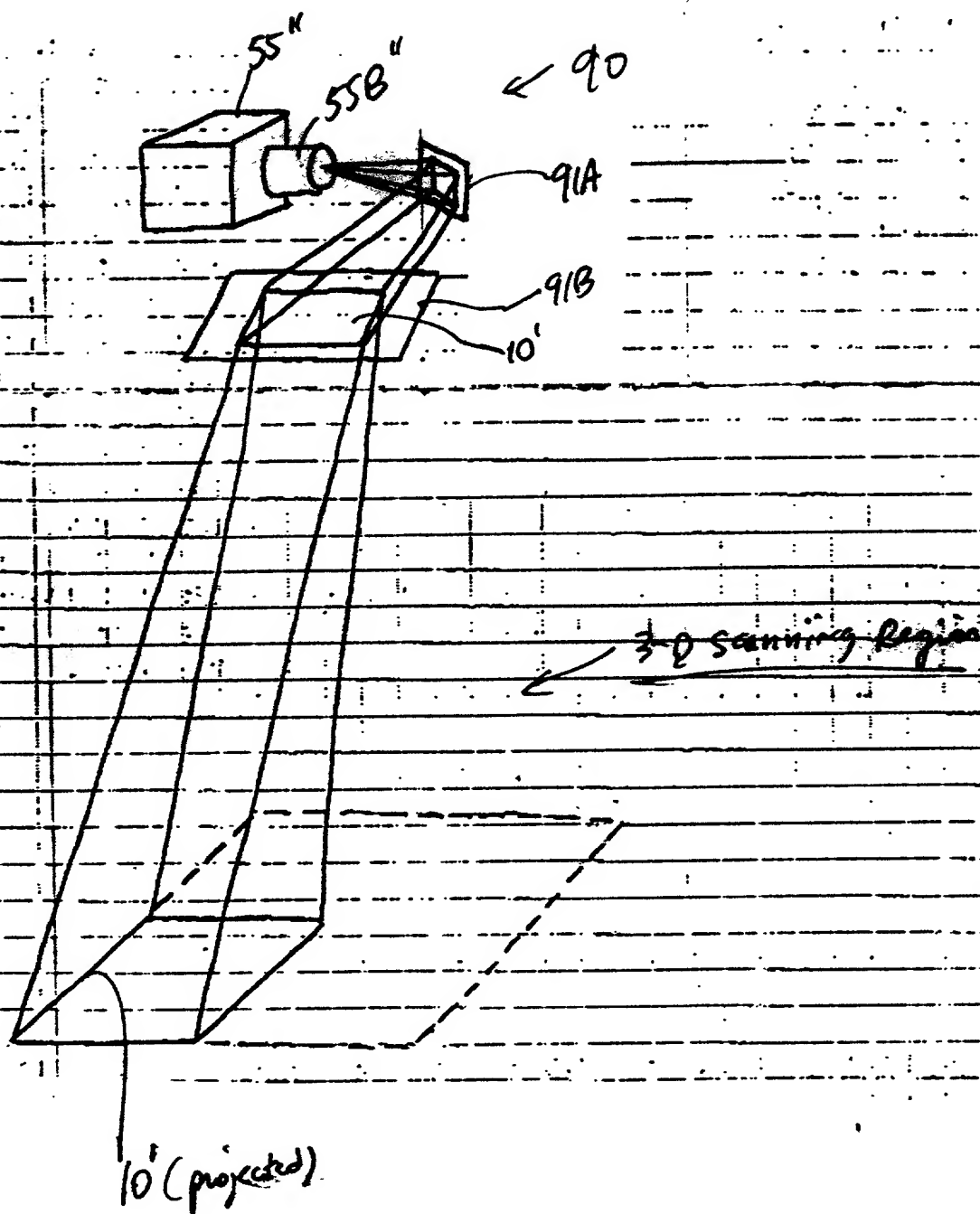
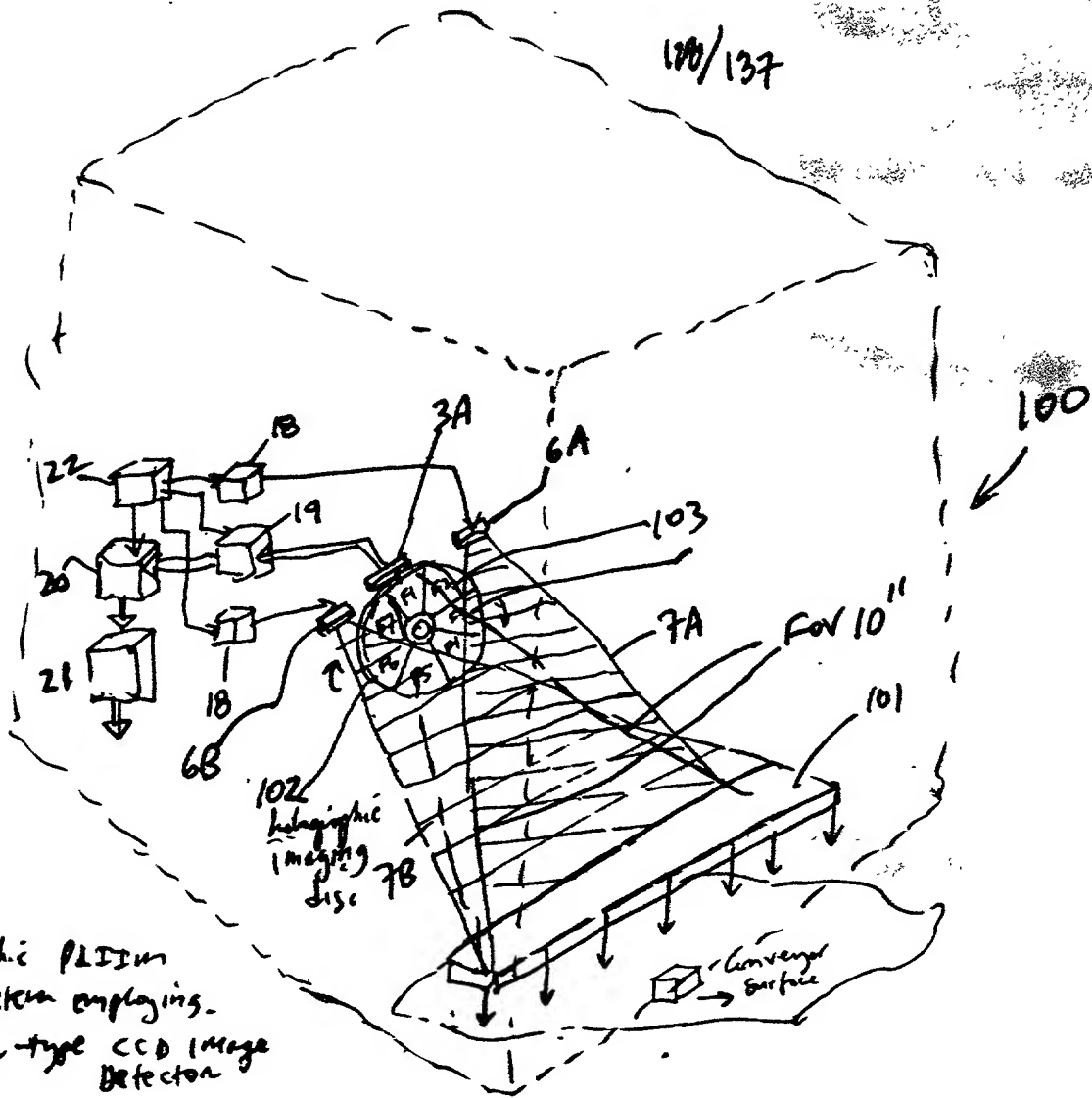


FIG. 6E4

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Holographic PLIIM
System employing
Lineage-type CCD Image
Detector

FIG. 7A

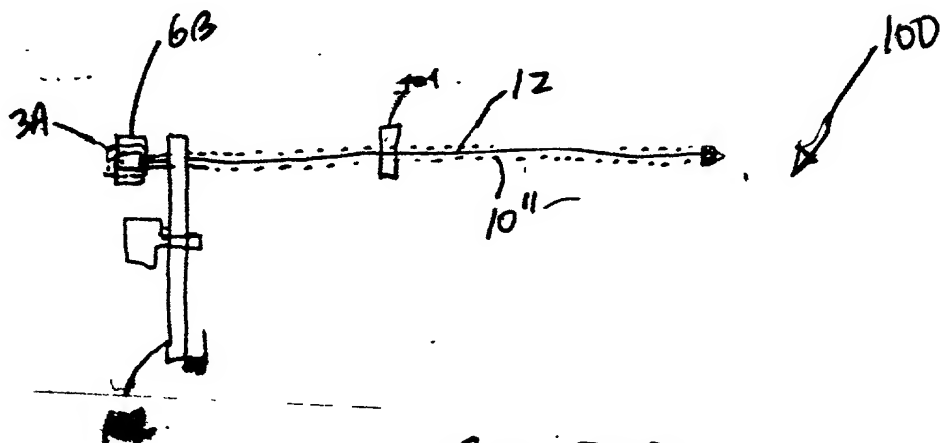


FIG. 7B

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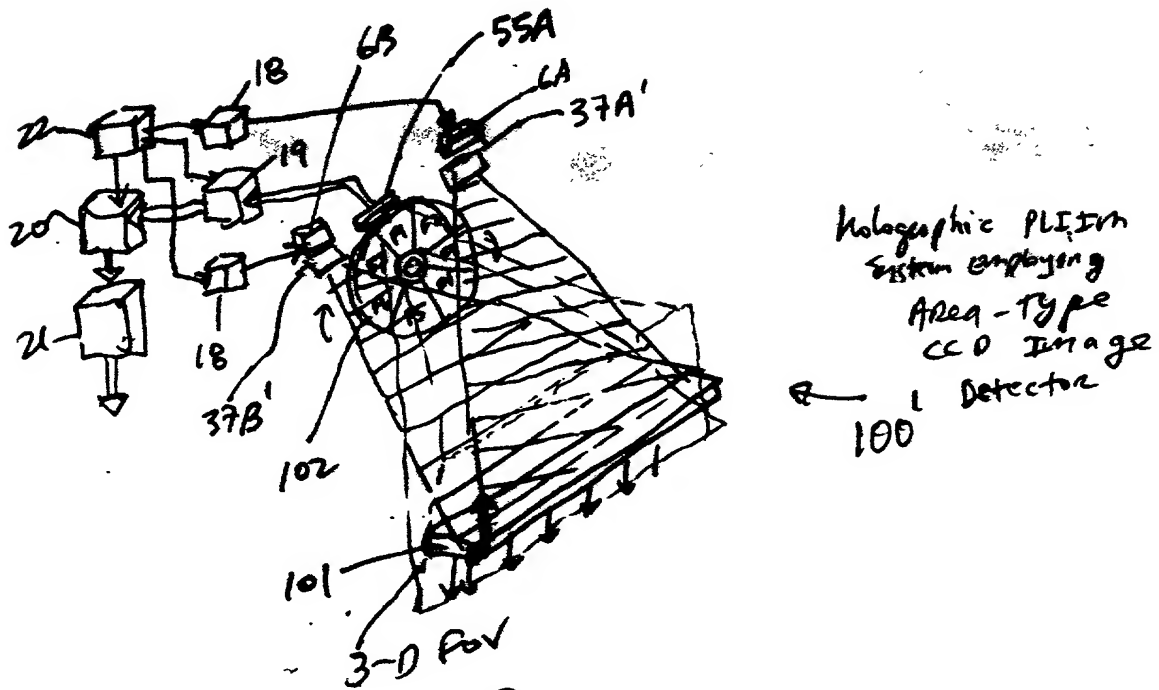


FIG. 8A

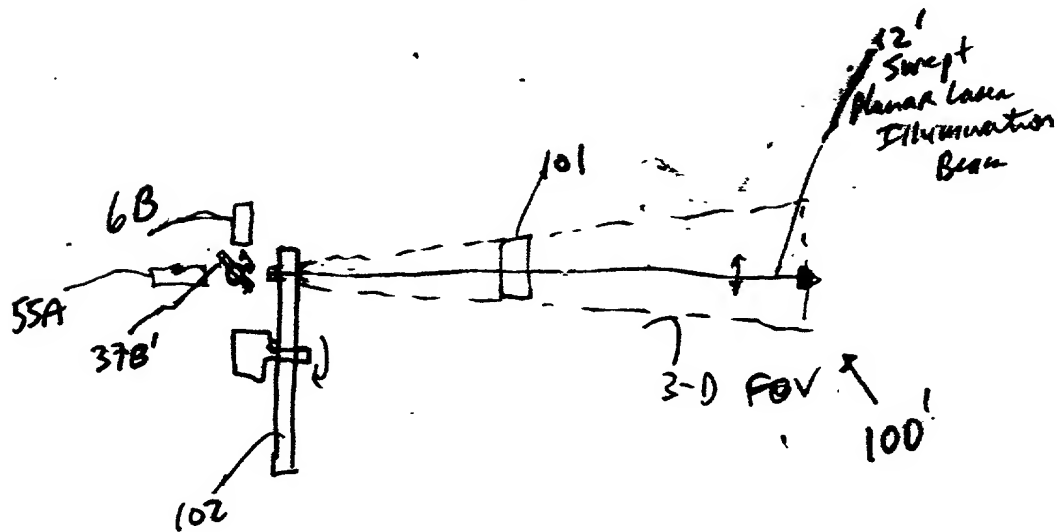


FIG. 8B

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R_{LOCAL} 1-D CCD SCANNER EMBODIMENT

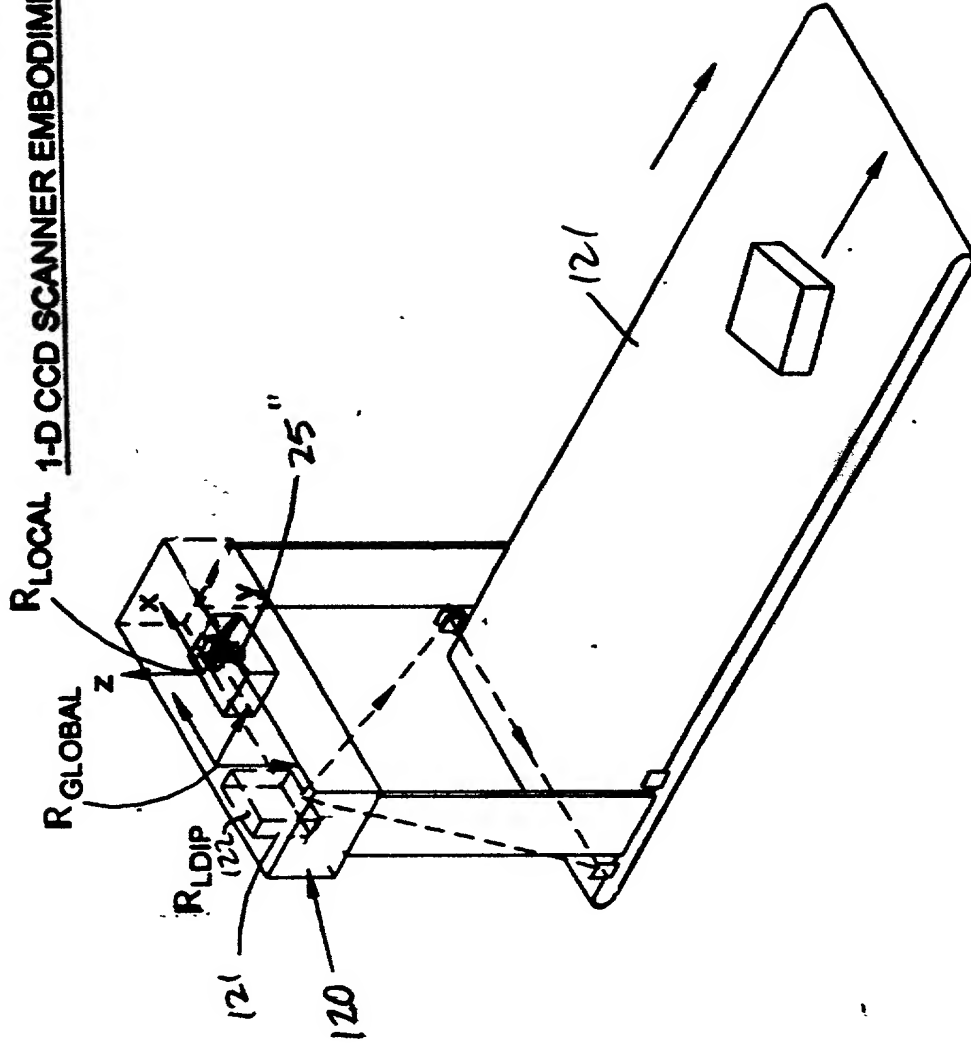


FIG. 9

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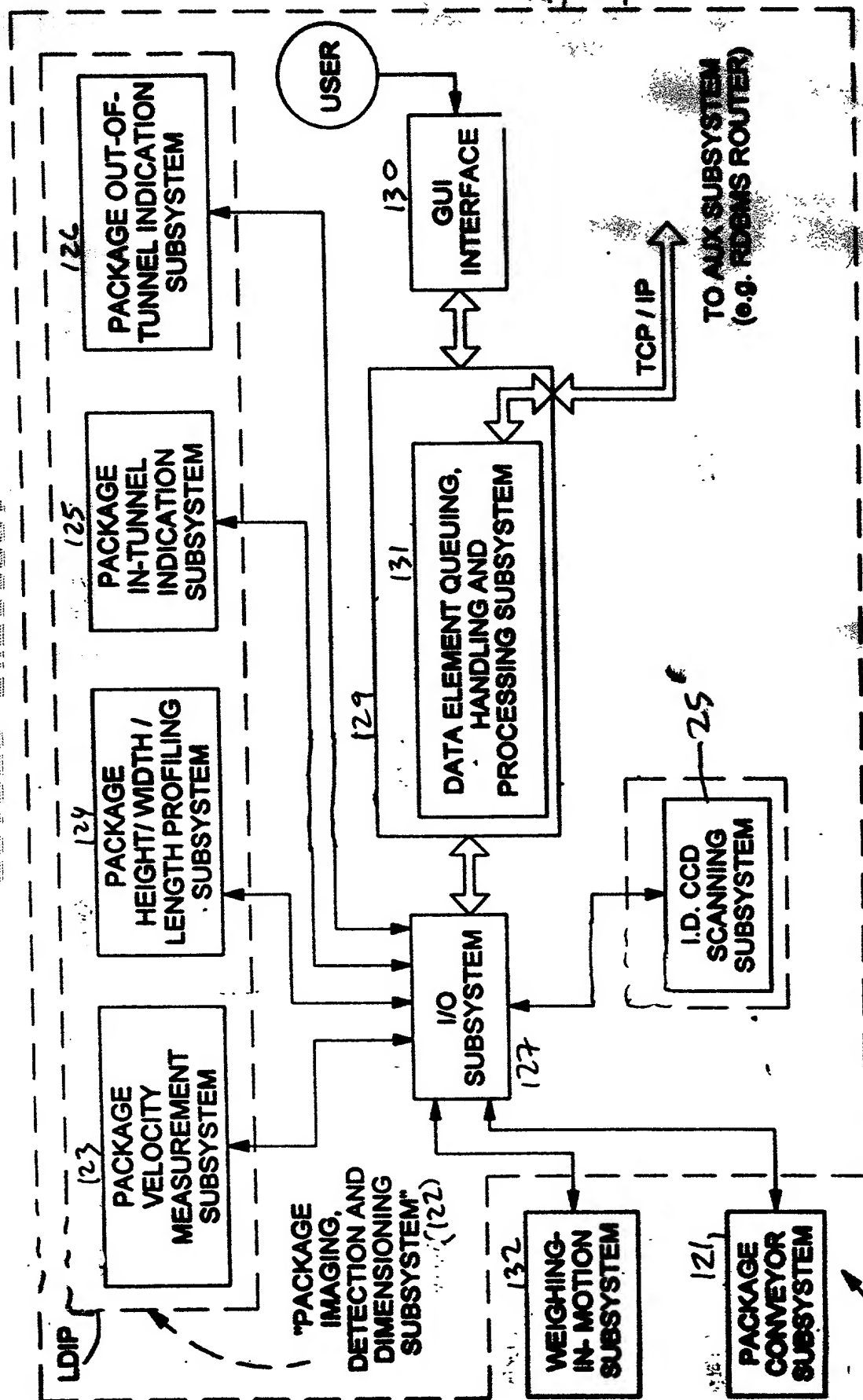


FIG. 10

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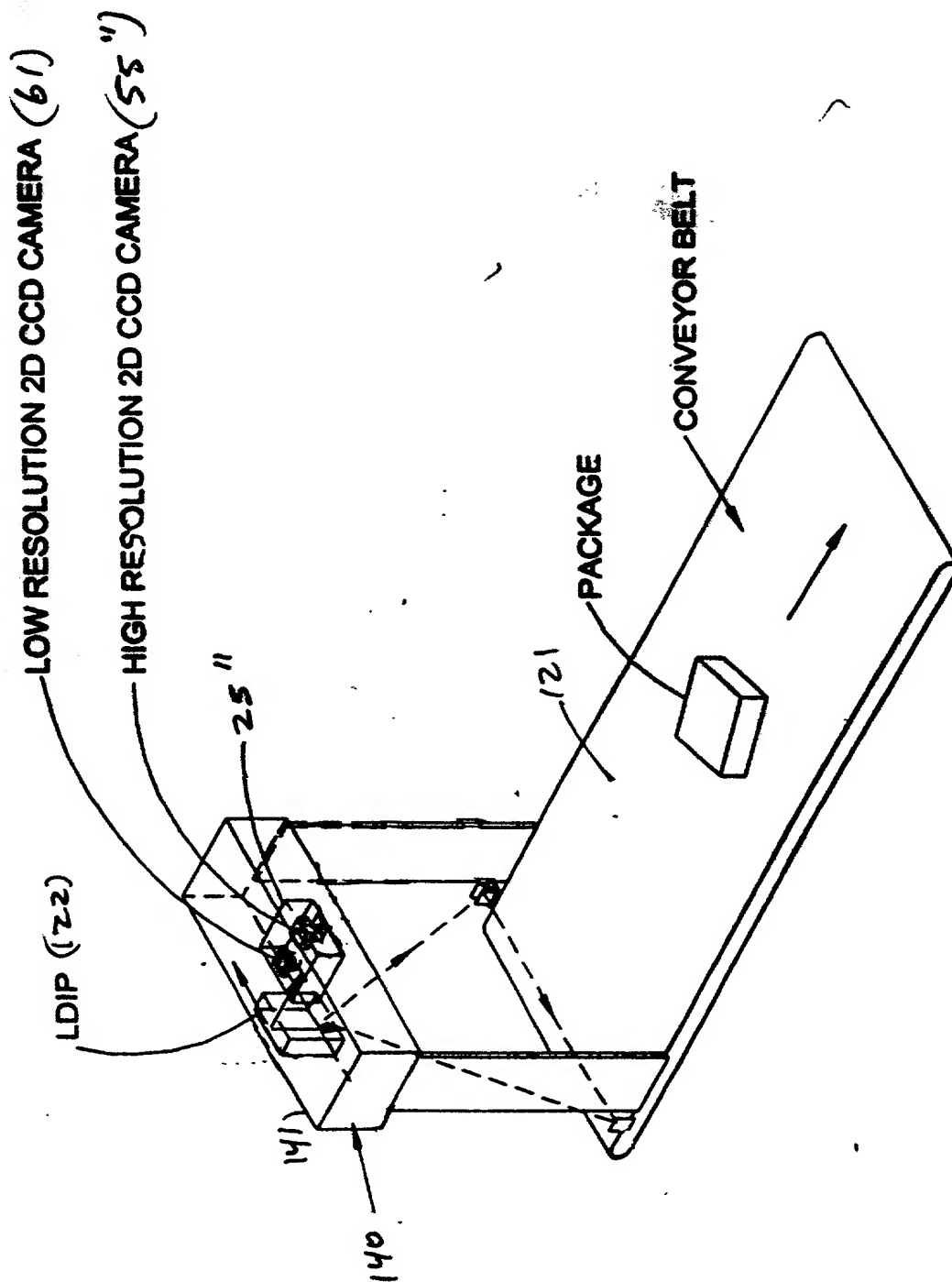


FIG 11

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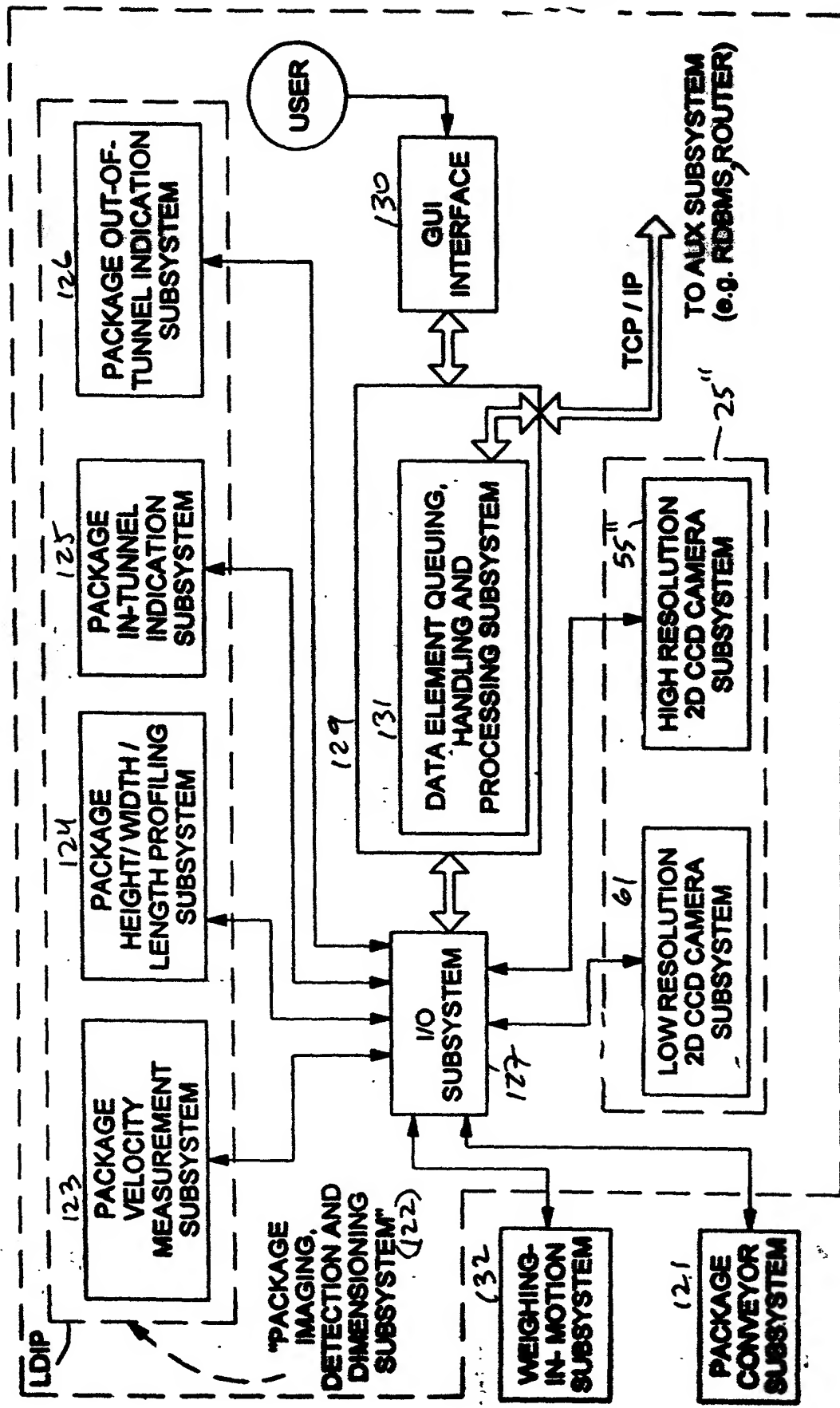


FIG. 12

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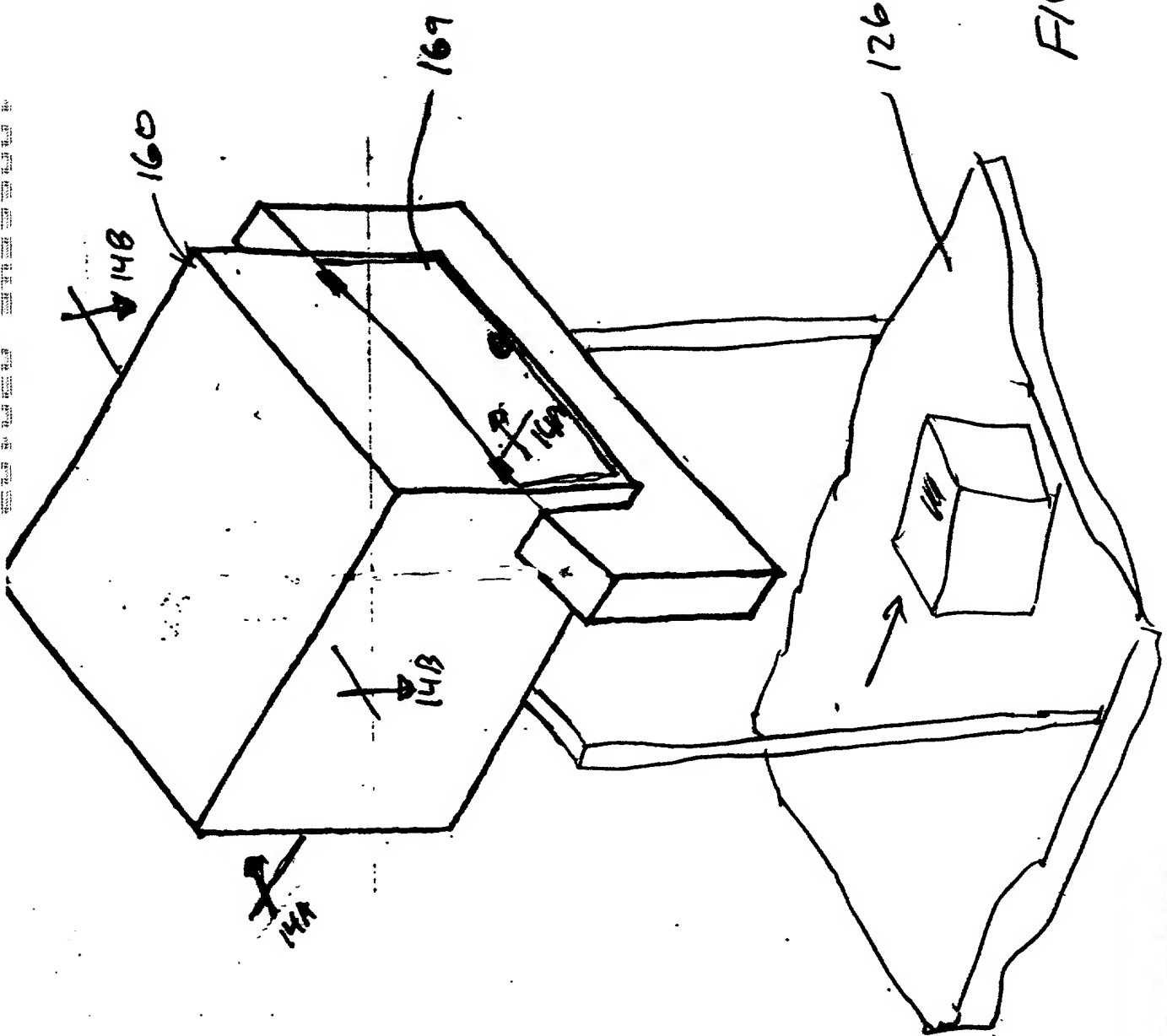
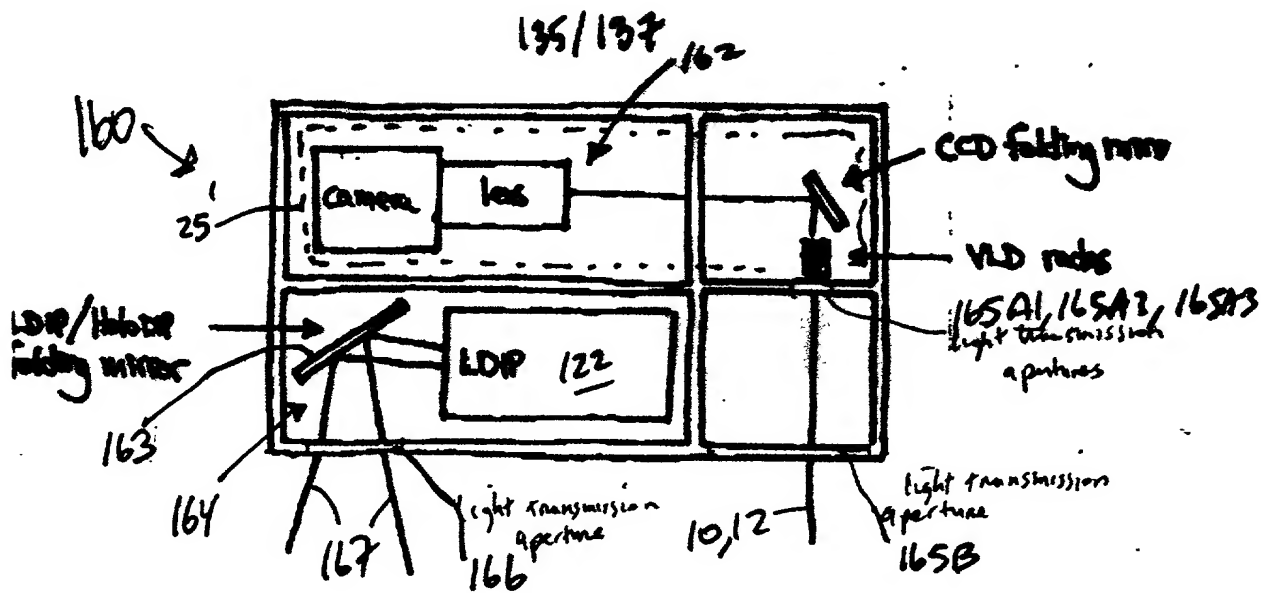


FIG. 13



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FIG. 14A

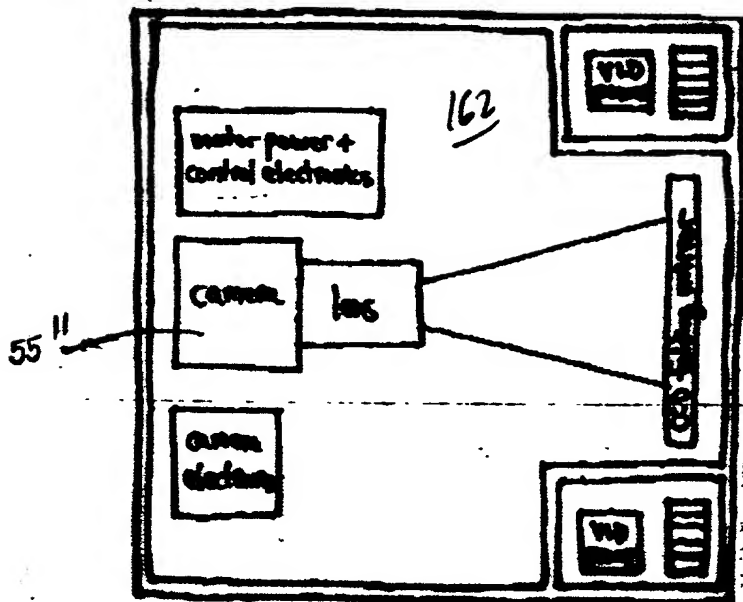


FIG. 14B

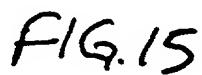
[illegible]

FIG. 15

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